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TWENTY-EIGHTH ANNUAL REPORT

OF THE

BOARD OF PARK COMMISSIONERS

OF

SAN FRANCISCO,

FOR THE YEAR ENDING JUNE 30, 1899



SAN FRANCISCO:

BRUNT PRESS, 535 CLAY STREET,

1899.



*W. H. Gardner*





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1899

## PARK COMMISSIONERS

A. B. SPRECKELS, President

FREDERICK W. ZEILE

W. H. METSON

JOHN McLAREN.....Superintendent  
M. B. FAIRMAN.....Secretary

OFFICE OF THE COMMISSIONERS OF GOLDEN GATE PARK, }  
BUENA VISTA PARK, MOUNTAIN LAKE PARK, }  
SAN FRANCISCO, CAL., July, 1899.

*To His Excellency, Henry T. Gage, Governor of the State of California,  
to the Legislature of the State of California, and the Honorable Mayor  
and Board of Supervisors of the City and County of San Francisco:*

GENTLEMEN: The Park Commissioners herewith present their report  
of the management of the grounds under their charge for the year ending  
June 30, 1899.

A. B. SPRECKELS,  
FREDERICK W. ZEILE,  
W. H. METSON,  
Park Commissioners.

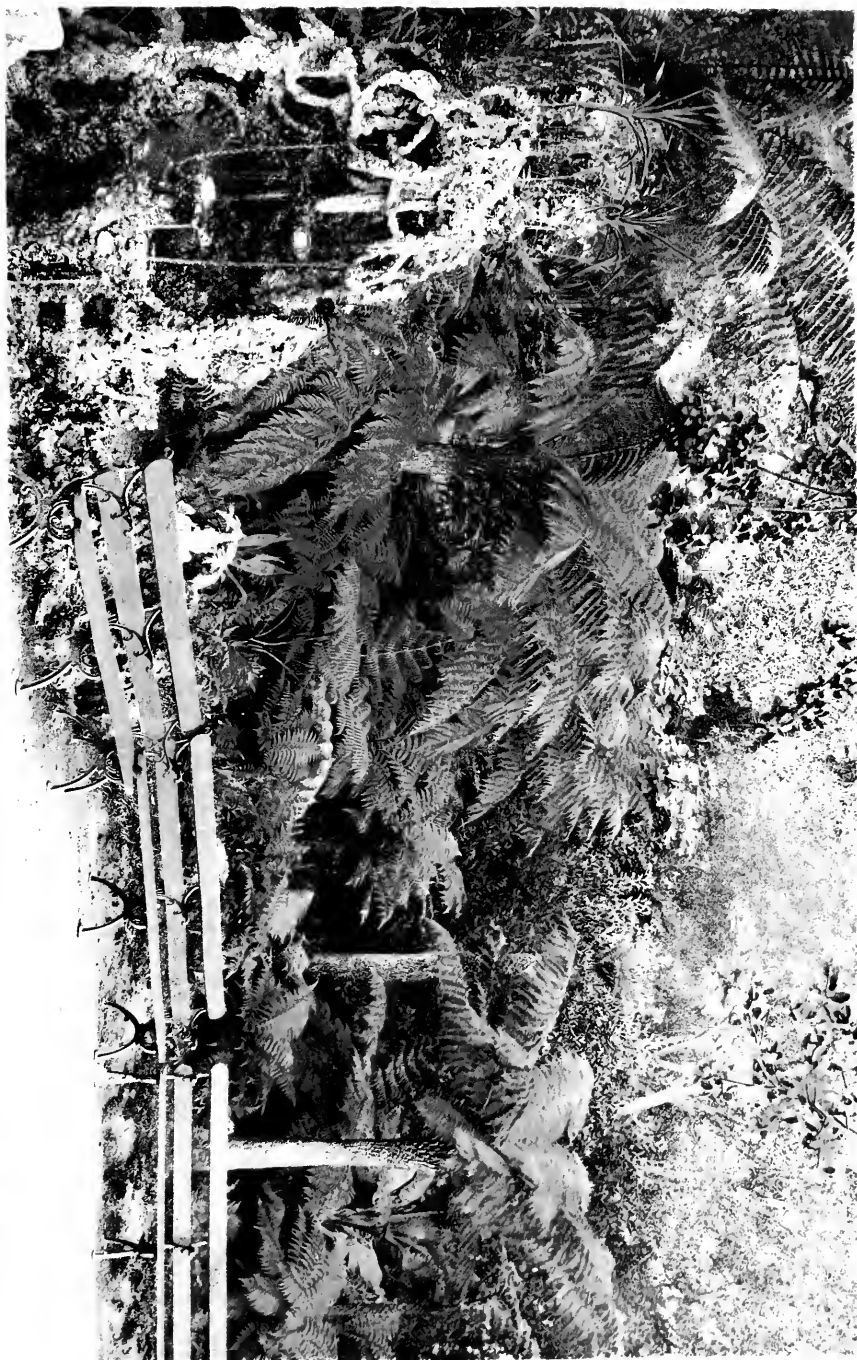




GILDED GATE PARK  
[REPEATING THE WORK OF RECLAMATION COMMISSION]



THE T.M. FERNS







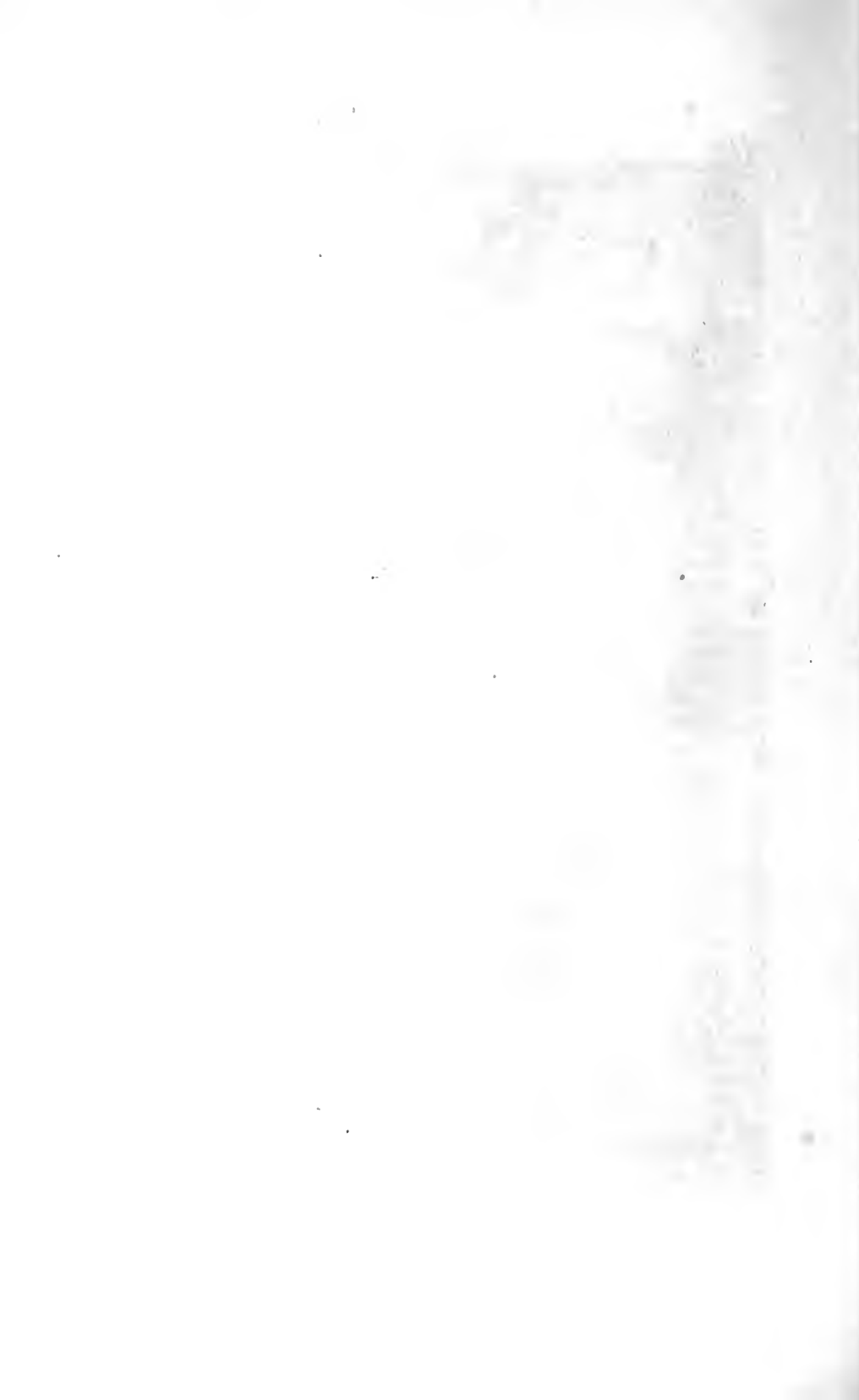


ALTON LAKES  
[5000 FT. W. ALTON]





MUSIC GROUNDS



## TWENTY-EIGHTH ANNUAL REPORT.

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Since the last report of the board many valuable improvements have been made in Golden Gate Park.

In beginning our report we respectfully urge upon the Board of Supervisors to make sufficient appropriations to maintain that which already has been accomplished, and complete those improvements still under way.

We trust that the results obtained from the appropriations heretofore made, are a sufficient guaranty of what will be done in the future in this respect.

It is to be hoped that generous citizens will continue their donations towards rendering the Park more attractive as the years go by. Some of the gifts heretofore made have been for the construction of special features, which have added much to the beauty and adornment of the Park. The late Senator Sharon bequeathed \$50,000 for the erection of the Children's House. This improvement has been the source of ever-continuing delight to the little ones who visit there. Mr. William Alvord's donation assured the small lake bearing his name. Mr. Lick made a bequest of \$60,000 for the erection of the Scott Key Monument, and as the result of Mr. Sweeney's gift we have the Panorama Building on Strawberry Hill. The \$25,000 presented by Mr. Huntington enabled the construction of the beautiful and natural appearing waterfall. As a crown to the previous contributions, Mr. Claus Spreckels is erecting a music stand at the cost of about \$75,000, which we are assured will in beauty and artistic grandeur surpass any in the world.

Golden Gate Park is conceded by experts to be one of the leading parks of the world, and with no unusual effort can be advanced to first place. None of the Eastern parks, with the millions appropriated yearly towards their maintenance, can equal the effects existing naturally and to be produced artificially here. Brooklyn issued bonds for park purposes amounting to over \$7,500,000. Boston followed suit to the extent of \$3,000,000. New York, Chicago and all of the Eastern wide-awake cities have done almost as much, and San Francisco should not be slow to realize the possibility of its magnificent surroundings.

All of the prominent landmarks of the city, especially the tops of the highest hills, should be preserved and improved. Boulevards should be laid out connecting all sections of the city. An avenue or approach to the Park should be carried to Van Ness Avenue. We wish particularly to attract attention to the desirability of connecting by a broad boulevard the Presidio park system with Golden Gate Park. Right in our midst

are two grand parks. Practically a barrier exists between them. Each is in some of its features similar to the other, but they exhibit widely different scenic effects. One affords, from gradually sloping hills, a view of a long expanse of beach and of the ocean, and the rollers which are constantly beating against the shore. The other offers to view a moving panorama of boats and shipping, the Bay of San Francisco, the islands therein and a glimpse of the ocean. From the Presidio across the Golden Gate rise the rugged hills of Marin, the sheer bluffs and cliffs of Lime Point. On the northern shore rapid and whirling currents have worn rough points and excavated deep and ragged caverns. The opposite side has many quiet coves and jutting points. In the Presidio is to be seen the advance made in the armament of the present day over that of fifty years ago. A boulevard running through trees, flowers and green lawns connecting these two parks would afford such a variety in scenic attractions for visitors and pleasure seekers as would reach to and draw from the further ends of this continent and the world over. In park system we are now equal to any. With this connection made we would surpass all. The immediate results financially and otherwise to be obtained from the proper development of this suggestion leads us to recommend that the necessary land be purchased or condemned.

Fifty acres of land should be purchased between Mission, Twelfth and Townsend streets and the water front. This park should not be created for the purpose of containing flower beds or expensive improvements but should be in the nature of a Common. North of Market street the city is well provided with open spaces, parks and play grounds, but south of Market street, where the most congestion exists, practically no provision has been made for breathing spots or recreation grounds. The two small squares there situate are entirely inadequate to the demands of that section of the city.

All the money invested in parks and boulevards is well spent. It is a matter of a very few years when vacant lots will be a thing of the past and it will be necessary, in the interest of the health of our citizens, to purchase land and tear down houses and other expensive improvements in order to create the parks and grounds required for the proper ventilation of the city. Thirty years ago the lands of Golden Gate Park were purchased for the sum of \$800,000. The value today is in the neighborhood of \$11,000,000. The Park has enhanced surrounding property. The increased taxes on the latter have more than paid the land cost. So would it be with property in the southern part of the city. If a public recreation ground were opened the buildings near by would be improved and kept in better condition. People in the vicinity would take more interest in their surroundings and it would be a benefit to the neighborhood. The increased assessment value given the surrounding lands will pay interest on the investment.

#### NEW MUSIC STAND.

The people of San Francisco will have, when finished, a Music Stand that will be practical and ornamental. This magnificent gift of Claus Spreckels, Esq., to the Park, is progressing and will be completed during January next.

The structure is designed in the Italian Renaissance style. It is being executed in Colusa sandstone. This stone is of an agreeable light color,



MUSIC STAND IN COURSE OF CONSTRUCTION  
(GIFT OF CLAUD SPRECKELS)

PHOTO COURTESY, BARTON & REYNOLDS





and is of great hardness and durability. In elevation the new Music Stand presents a central feature, having a frontage of 55 feet and a height of 70 feet. This central feature is flanked on each side by Corinthian columns. Between the columns is the niche, or band stand, semicircular in plan, with ample capacity for one hundred musicians. Extending from these Corinthian columns, on each side, are colonnades 52 feet 6 inches long by 15 feet wide, each supported on 16 Ionic columns. The colonnades are approached by steps from both the amphitheater and Park walks. Provision is made, on ample scale, back of the niche, or band stand, for assembly, care of instruments, storage of music and the necessary offices.

#### IMPROVEMENT AND CONSTRUCTION OF GROUNDS.

There has been a very large amount of work done in this department during the year, such as the grading, shaping and loaming of the grounds about the old '49 Camp; the grounds fronting Stanyan street between Haight and Frederick streets, those bordering the newly constructed Bridle Way, between 10th avenue and Strawberry Hill, those on each side of the Bridle Road west of the Prayer Book Cross to Broom Point, also all along the line of this roadway to its junction with the Main Drive near the island east of the watering box. The Meadow east of the newly opened lakes has also been much improved, and enlarged.

Early in the year the railroad company moved its Depot Building from the ground opposite Haight street, and also took up the track that crossed the southeast corner of the Park. This building the Company cut in five sections and moved, one to 14th avenue, one to 30th avenue, one to 40th avenue, one to the southwest corner of the Great Highway, and one opposite the Beach Chatelet, each of the sections having been moved out to the site selected, placed in position, fitted up, painted, and put in proper shape by the Company and donated to the Park for depot purposes. The grounds on and about the old site were first graded and loamed, then groups of different kinds of trees were planted, water pipe was laid, a fence built on the street line, and the whole seeded to grass.

The ground situated between Waller street and the south line of the Park and west of Stanyan street was originally about 15 feet below the grade of the street, and, in order to give a natural appearance to the surroundings, it was necessary to lower the railroad embankments and do considerable grading. Over 4,000 cubic yards of sand had to be borrowed, some from close by, but most from a considerable distance. The grading having been completed, the new surface was heavily manured and then covered 12 inches deep with good loam, which was afterwards plowed and cultivated. When thus prepared, the ground was divided by three breaks and a cypress hedge planted along the line of each break. Water pipe was put in, walks laid out, and young nursery stock planted. For a width of about 100 feet fronting Stanyan street, a broad belt of shrubbery of various kinds was started and the space between the shrubs and the street planted in grass. Most of the loam thus used was taken from the line of Buena Vista Park, fronting on Haight street.

Placing the five depot buildings required that walks be laid out, graded and macadamized, leading to the Park system of roads and walks. At the Boulevard Station we had to plant about an acre with Mesembryan-

thenum and other Succulents and to put out Cypress, Acacia on the west side and Douglas Fir and Menzies Spruce on the east side of the railroad.

Adjoining the new Bridle Road east of Strawberry Hill, after grading, manuring and loaming, there was planted groups of Cypress, Acacia, Pine, etc., on the higher ground and Redwoods and Silver Firs in the hollows and more sheltered spots. West of Strawberry Hill, on each side of the Bridle Road, groups of trees have been planted. About 200 trees of each variety have been planted in groups so as to give a distinct idea of their characteristics when in a grove. Nature loves to mass her effects. For instance, the Digger Pine and Sugar Pine are never found in the same section. The Digger Pine thrives in the warm foothills, and seldom grows naturally at a higher altitude than 2,000 feet. The Sugar Pine, on the contrary, attains perfection in the higher altitudes. The belt between these levels is the natural habitat of the Yellow Pine, which blends and mixes on the edges with the others, but each is to be found in solid groups in its own region. With the object of giving visitors to the Park in years to come some slight conception of these trees as Nature masses them, this planting was made. At other places it is intended to set out single specimens in great variety for purposes of comparison. On passing Broom Point is a grove of the Black Budded Pine, *Pinus Muricata*, then comes *Pinus Jeffreyana* from San Diego County, next *Sequoia Gigantea*, following come cedars from Lebanon, and so on in succession. This should in a few years make a very interesting collection.

#### A CHAIN OF LAKES.

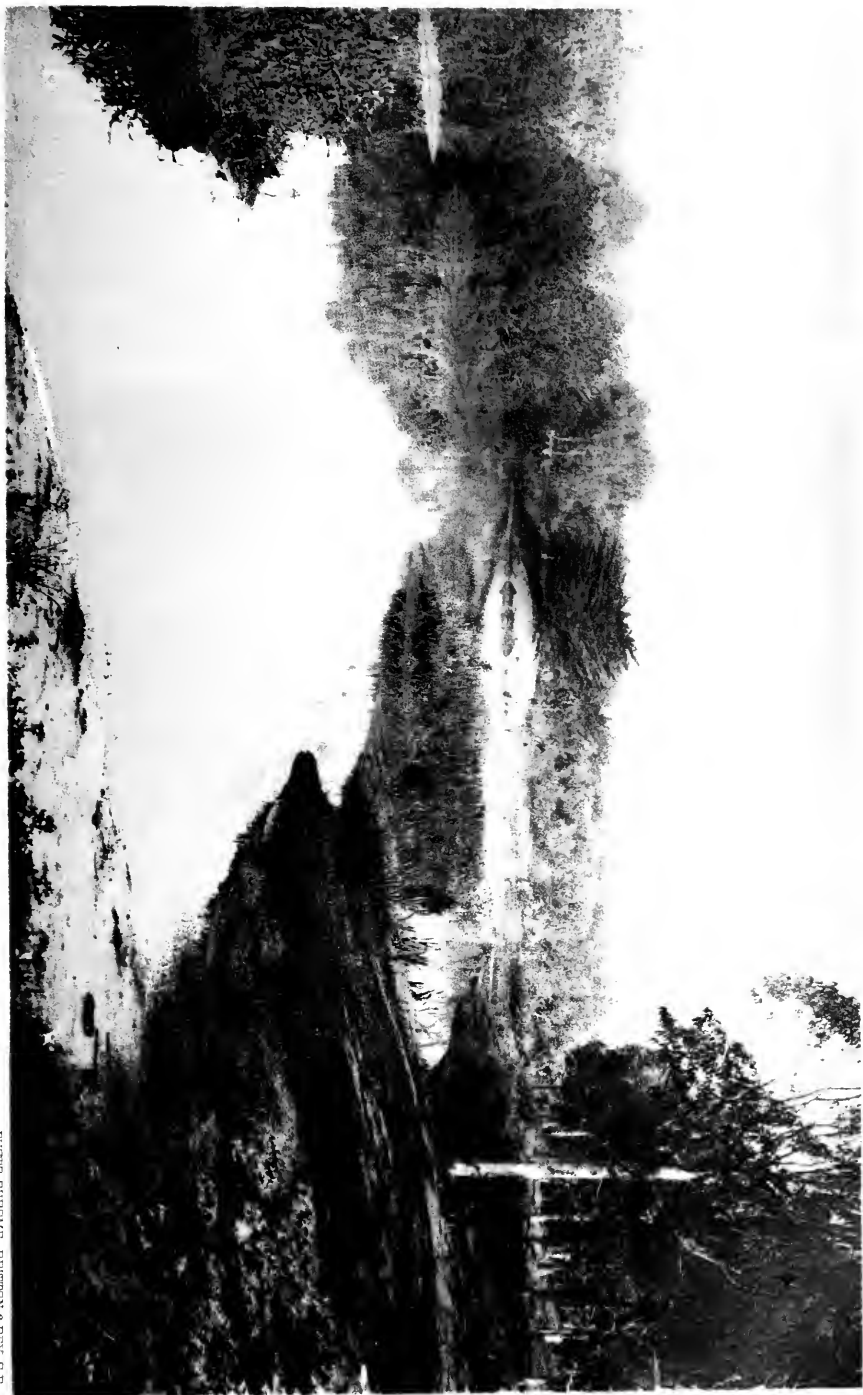
In our estimates for the fiscal year ending June 30th, 1899, we asked for \$15,000 for the purpose of constructing a portion of this chain. It is intended to construct small lakes, rather than one large or continuous sheet of water. There will be many wooded islands, each with different kinds of trees and undergrowth, together with Ferns, Iris and other plants that grow naturally in such secluded, sheltered situations as will be made.

On the margins and along the embankment of Stow Lake it would be injudicious to plant large-growing, strong-rooting trees, on account of their roots penetrating the clay bed and puddle pit of the reservoir. But large trees can be grown, and will give that variety of light and shadow that will be one of the charms of our new lakes. Around the lake now in course of construction there will be planted a collection of those trees which naturally do well in the vicinity of water, such as the alder, the maple, the ash and the willow. Other varieties will be planted so as to create sky lines and form shadows and shades along the water surface. In contrast to the agitated surface of Stow Lake, the water here will be still and peaceful, its glassy surface mirroring the island. Instead of the views being broad and expansive as at Stow Lake, the visitor will see charming little fern dells, and trees trimmed with every variety of climber that will flourish in this dale.

It is not the aim to embellish the margin of this lake with foliaged plants, nor maintain it in a finished condition by mowing the grassy slopes. Native trees, bushes, indigenous climbers, honeysuckle and wild blackberry will afford ample adornment. Rhododendron will be planted on the westerly side, and, in order to give variety in places, numbers of similar plants from other countries of the same habit of growth and re-

LAKE IN COURSE OF CONSTRUCTION.

PHOTO-CHROME, BRITTON & REY, S.F.







VIEW ON STUWE LAKE



quiring the same kind of soil and treatment will be introduced. The latter will not appear out of place amongst the native sorts, but will enhance and prolong the different shades and color effects from early in the spring until late in the summer.

Construction of these lakes began about November 1st, and has been carried on continuously ever since. The main lake has been completed, and the ground immediately around it has been shaped and graded. The easterly side for about 1,000 feet in length and 600 feet in width has been manured and loamed. A driveway thirty feet in width and 3,550 feet in length has been graded. A walk ten feet wide and 3,500 feet in length has also been laid out, graded and shaped ready for the macadam. Six thousand five hundred feet of water-pipe has been purchased and laid around the grounds. The main pipe is three-inch, while the branches are two-inch, and one and one-half inch, with one and one-quarter inch uprights, all of the best galvanized standard screw pipes. Hydrants are placed 100 feet apart and about all the newly graded grounds.

Where this lake now shows so prettily was a natural hollow or depression running north and south across the Park, with the water lying about seven feet below the level of the land. To create the lake effect desired, it was necessary to grade the land down to about one foot below water level. Fifty-five men, with the help of an engine and twelve cars, moved 38,000 cubic yards of material to the easterly side and deposited it about 300 feet from the water-line of the lake. The fill was left in as natural-looking mounds as the nature of the ground would permit. This lake is about 1,500 feet long and varies in width from 400 to 100 feet. The water-line is much broken in outline, winding in and out in bends and curves, and abounds in beautiful little nooks, while new and unlooked-for views and effects are constantly met with.

Seven little islands were left of various sizes and outlines; each island being planted with different but appropriate families of trees, one with the Birch Species with undergrowth of Rhododendron, another with Alders and Ferns, still another with Willows and Iris, one with the Louisiana Swamp Cypress. Wild Columbine will carpet the southerly end of this body of water. Toward the west a long neck of water imitating a creek channel makes a novelty of that part of the lake. Projecting points will be planted with different kinds of shrubbery, those of the Bamboo and Pampas families being used especially. Each point will harbor a distinct species, the stronger-growing kinds on the larger spaces and the weaker on the smaller points. This arrangement will prevent the less hardy from being crowded out or killed by the more vigorous.

The newly loamed grounds east of this lake will be plowed and then planted mostly with native conifers and shrubbery, such as *Ceanothus*, *Romneya*, *Rhamnus*, etc. Among them, when the autumn rains arrive, will be sown a collection of native wild flowers. When this is done we shall deem the work at this point completed.

#### EXTENSION OF WATER SUPPLY.

The lack of rain during the years of 1896, 1897 and 1898, and the vastly increased demands made upon the water supply of the Park, due to the greatly augmented average of improved lawn and acreage, made it necessary to increase the supply of water, hitherto sufficient to satisfy all necessities. This was a much more difficult problem to undertake than

would seem to one unfamiliar with the source and nature of the supply. Water appeared to be unattainable. The engines at the water-works had to be slowed down about midday, leaving a shortage in the reservoir. To further increase the supply it was determined to deepen the settling reservoir. This was done by driving 3 x 12 T. & G. sheet piling 20 feet in length just outside the 12-foot piling put in several years ago. After driving this new piling all around the reservoir, the old sheet piling was taken out and the new walls braced with 6 x 6 timbers. The sand was then dug out the full depth of the new sheet piling, braces being put in four feet apart until the bottom was reached. A floor of the same lumber was laid and fitted neatly around each of the six wells to prevent sand getting into the reservoir. In each of the 3 x 12 planks forming the walls and floor of the reservoir openings 12 inches long x 6 inches wide were cut and the openings covered with fine brass sugar cloth. Such cloth was necessary in order to keep out the very fine sand and still allow water to enter. Reaching this increased depth, increased the water supply about 500,000 gallons per day, and enabled us to tide over the dry fall and keep the park lawn in good order. It is the intention to continue the deepening of the reservoir to its westerly end when the water gets to its lowest point, which will be about September.

#### HUNTINGTON FALLS.

This gift of Mr. C. P. Huntington is one of the most delightful features of the Park. As the trees, flanking the falls, grow in height and spread of limb, they add character, and give a more natural and finished look to the surroundings. The water starts from the summit of Strawberry Hill and rushes and dashes along, and finally leaps into Stow Lake below.

#### MEADOW AND SURROUNDING GROUNDS.

The Meadow laid out and sown last year having given so much satisfaction, it was deemed best to add to its size as well as to give a more natural look to its outline. To shape this addition considerable grading had to be done. The knoll on the west side had to be cut down to get the necessary material for fill. The hollow adjoining the long depression on the east side had to be filled. In all, 4,500 cubic yards had to be moved to arrange for meadow land. This improvement is in the right direction. Large parks should have broad meadows, large forest groups, wide drives and cycle ways, long vistas and varied effects. After getting the ground into shape it was given a good manuring and a covering of loam to a depth of six to eight inches. The necessary water pipe was then laid. After cross-plowing and harrowing, it was seeded and rolled, and thus another bit of beauty was added to the Park. In this work much thought was given to adding variety to the outline by cutting out the trees before grading began. Several small groups were allowed to remain and also many single trees, thus the expanse was made to look much greater than it really is. When funds permit it would be advisable to extend this meadow a few hundred feet still further to the west.

The grounds about the site of the '49 Mining Camp—a remnant of the Midwinter Fair—have been laid out and improved by walks. Groups of deciduous trees and shrubs and a ground work of lawn have been added. Three of the old cabins constructed by the Fair people have been allowed to remain and add greatly to the general appearance of the landscape.





HUNTINGTON FALLS

PHOTO BY W. M. L. F. L. K. M. V. 53



## ROADS AND WALKS.

The first work of this character laid out during the year was the construction of the driveway connecting the South Drive with the Great Highway, going under the stone bridge at that point. This drive is 60 feet in width and divides into two branches upon leaving the bridge, one leading south and the other leading north, and both joining the boulevard. This drive has proved a great convenience to Park visitors, for instead of having only one entrance on the west, as formerly, visitors may now drive out one drive, go along the beach, and returning, enter at the north or south entrance, as may suit their pleasure or convenience.

Another new road was laid out, graded and graveled, leading from Waller and Stanyan street to the nursery and stables, one branch leading to the South Drive. This driveway is 30 feet wide and about 600 feet long. The next drive construction was around the new lake. On account of the irregular shape of the ground, there was a large amount of grading and of filling required. Some of the fills were over twenty feet in depth, and with the slope, required a large quantity of material to make the grade. Along the line of this road several fine views of the new lake were opened up, making it a very interesting driveway. Its length is 3,500 feet and its width thirty.

By request of the residents on the North or Richmond District, a new drive was laid out connecting First avenue with the North Ridge Road. It is about 500 feet in length and thirty in width. On account of the number of people visiting Stow Lake by way of the Japanese Garden, it was thought well to reconstruct and lay out by a more direct route a walk of easy grade connecting these two attractions, the old walk being too steep in grade for comfort. To accomplish this it was found necessary to decrease the slope of the lake embankment and curve the line of the walk further to the north. Some pretty rock effects were introduced along the line, by planting ferns and Alpine plants and a group of our coast *Abies Grandis*.

Last season the Main Walk paralleling the drive was graded and graveled as far as the tank-house. Work on the extension of this walk was begun last fall and finished to its junction with the Boulevard. It parallels the Main Drive for quite a distance until the west entrance to the Speed Road has been passed. It leads off to the Main Drive at 27th avenue and then again parallels the Main Drive until it reaches the beach and the ocean. Some rather heavy cuts and fills had to be made in carrying out this work, especially opposite the Speed Way, where over 20 feet had to be made up. The length of the new walk is 3,190 feet, and the width is 15 feet. Several rustic benches were built from the cuttings rooted out along the way. A walk was also laid out, graded, graveled and rolled, running from the Main Drive, across the grounds, around the '49 Camp, to Strawberry Hill, a distance of about 800 feet. This path was much needed, as is shown by the number of people crossing the valley at this point.

Still another new walk was laid out and finished leading from the Chain of Lakes Station to the walk which runs parallel to the Speed Way. Directly in the path of this walk a deep hollow intervened, over which a rustic wooden bridge has been placed, the construction of which was

cheaper than filling the hollow with sand. It also adds much to the beauty of the landscape. This walk makes an easy and pleasant path, connecting the depot with the new lake.

#### BUENA VISTA.

This Park, of about thirty-six acres, has been but little improved.

Years ago, when this tract was first made a portion of the public park system of the city, trees—mainly eucalyptus, cypress and pine—were planted all over the hill in groves and scattered groups. Later on, groups of shrubbery, consisting mainly of *Acacia*, *Broom*, and some of the more hardy varieties of the shrub family were planted. They thrived best on the east side of the hill, this slope being well protected from the winds. A road starts at Baker and Haight streets and runs around the east side of the hill to the crest and comes down on the west side to Haight street and Central avenue. This road is known as Buena Vista avenue.

During the summer of '96, a survey was made of this Park for the purpose of determining how to improve it in the cheapest manner. Plans were drawn up for walks around this hill and for grading and regulating the slope of Buena Vista avenue. This avenue was steep in most places, and many land slides occurred during the rainy season. During the last year these plans were carried out. The Park is now well supplied with macadamized pathways.

The main walk starts from a point on Haight street opposite Lyon street. Rustic steps thirty feet in length lead from the street to the top of a steep terrace. Here the path divides, one leading to the summit of the hill and the other taking its course up the eastern slope, both main pathways meeting about 75 feet from the crest of the hill at the northeast corner. The pathway on the west side is met by a walk beginning at Haight street and Central avenue, and also by one starting on Buena Vista avenue at a point directly opposite Frederick street.

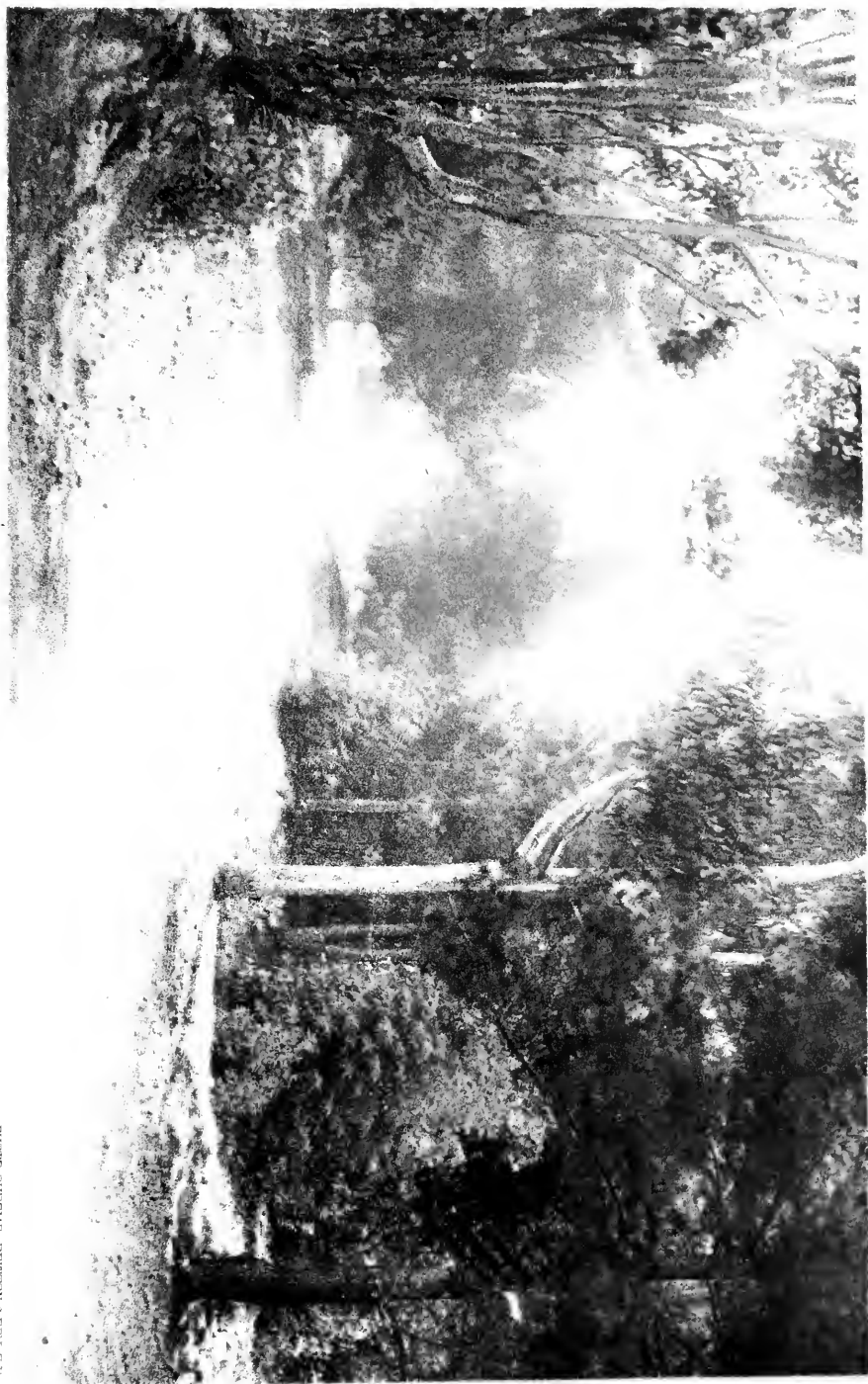
The main pathway on the west side branches at a point a little above Frederick street, going east and meeting the other main walk near the summit. The other branch continues around the west side of the hill, reaching the summit at the southwest corner.

The main walk on the east side is met by a path starting from the corner of Haight and Baker streets, and by one starting from Buena Vista avenue at a point opposite 13th street.

In April, '99, the work of grading for an entrance to Buena Vista Park was again begun after an interim of two months. The terrace was graded to about a  $2\frac{1}{2}$  slope, and the surplus clay was used to loam the newly graded nursery ground at the corner of Stanyan and Frederick streets. This clay is of fair quality, and will make good soil when well mixed with manure.

#### TREE PLANTING.

Many thousands of trees in great variety have been set out during the year. Fine collections from many different countries have been made, including *Linden Sweet*, *Gum*, *Maples*, *Hawthorns*, *Oaks*. Large groups of *Pittosporum*, *Araucaria Imbricata*, *Picea Pungens*, *Laburnum*, *Oleas*, *Euonymus*, *Deutzia*, *Rhododendron*, *Azalea*, *Quercus*, *Suber*, *Q. Cuspidata* have been planted, as well as thousands of the many varieties of evergreen *Acacias*, *Ceanothus*, *Romneya Coulterii*. The last two named it is the intention to plant extensively. Both are natives, and give a most



ON THE BRIDLE PATH.

PHOTO-CHROME. BRITTON & RYAN





THE POLIO FIELD





pleasing effect when given suitable soil and exposure. Another of our natives which gives splendid results is the *Fremontia*, a small tree of the *Malva* family. Its gorgeous masses of dazzling yellow flowers when in bloom are most pleasing. Many more of our native shrubbery are being experimented with, with the view of testing their adaptability for producing arboreal effects in park work. Quite a number of new plants from foreign countries are constantly being tried and tested for this work also. Many of these have proved satisfactory, especially those that have been introduced from Japan, the Australias, Chili, and parts of Mexico, but those from Central America and other tropic countries are not so successful. With the exception of a few from the higher altitudes, nearly all have been failures, being unable to withstand, during their season of growth, the coolness of our nights. The *Camelia* of Japan, the *Rhododendron* of India, and the *Azalea Indica* are all growing vigorously and create striking color contrasts. In early spring, the *Camelias* and *Rhododendrons*, opening their flowers in early February, vie with the masses of *Acacia* bloom. No park in the world has as good a representation in this line as has Golden Gate Park, but more can and should be done. There remain hundreds still to be introduced from both foreign and native sources.

#### BRIDLE ROAD.

Those driving in carriages and those riding on the bicycle have had their respective roads and paths, but the riders on horseback have demanded that they be given a road specially constructed for equestrianism. Recognizing the justice of their claim, it was decided to lay out a system of bridle ways, which would meet the wishes of the riders. After making a careful survey of the whole Park, it was determined to commence the road at the Museum, continue it through to the beach, meandering through the central and northern portions of the Park, making a road  $3\frac{1}{2}$  miles in length and 20 feet in width. Beginning at 10th avenue, the road turns towards the north, and running down through a deep swale opposite 13th avenue, it continues up a rather steep grade for a distance of about 200 yards. This part of the road is well sheltered from the wind by a high embankment and shaded by large pine and cypress trees, making a very beautiful ride. After getting to the top of the grade, the road becomes almost level for about 100 yards, after which it again descends in easy gradients to the level of another valley, opposite 17th avenue, crossing which it rises to the line of the Main Drive, where the rider may elect the drive or continue along the bridle path, which again detours to the north on a rather steep grade to the north of the Prayer-Book Cross. At this point the elevation is over 300 feet, and a splendid view of the surrounding country is afforded, including Tamalpais, the Marin County Range, with the great Pacific and the Farallone Islands in the distance. Again descending the hill, the road leads through a thick grove of pines and crosses 24th avenue 300 feet south of the "D" street line of the Park. It then leads through a group of acacias and along the top of a ridge, where some pretty canyon effects are seen. Crossing the Main Drive at Broom Point and ascending the ridge, the road follows the crown of the ridge, offering many fine views of both the Park and the Ocean. Nearly opposite 35th avenue, the Main Drive is again crossed and the bridle path approaches through rather low ground the northern end of the newly made lake.

It is the intention, should funds permit, to continue the improvement out to the beach. When this road was first constructed it was used for hauling loam and fertilizers to the young trees along the line. When the hauling was finished the macadam was leveled and rolled and a surface of beach gravel about two inches thick, spread thereon. This will make a good galloping surface free from dust in summer and mud in winter.

#### THE PARK AND ITS MAINTENANCE.

To maintain the Park in first-class condition, to keep up hundreds of thousands of nursery plants ready to be transplanted when the proper season arrives, to support the Conservatory and the Museum, and properly exhibit its thousands of curios, and beautiful and useful exhibits, to keep in repair the many buildings, the miles of drives, bicycle roads, bridle ways, and footpaths, to preserve in health and vigor its many acres of shrubs and trees, to keep gay with color its flower-beds and its many acres of lawns and grassy borders, in the dry summer of California, is a work requiring an enormous amount of care and money. In Eastern and in most of the European parks the showers of summer keep the foliage and lawn green, their roads sprinkled, and their flowers growing without the expense of wells and pumps, engineers and coal and a large force of men for the distribution of the water necessary to plant life. These expenses have to be provided, and are the large items which our people are apt to forget. In the East the winter season covers the parks many feet deep with snow. No grass or flowers then grow to require attention or protection, nor weeds to annoy and cause labor; whereas here in the genial climate of California constant effort is required 12 months in the year and every day of the seven.

#### THINNING OF FOREST TREES.

This very necessary portion of the work of park development has received considerable attention. All of the oak thickets bordering the North Ridge Road were gone over and given a judicious thinning early in the season, the weaker and poorer limbs and branches and branch trunks being cut so as to give light and air to the others. These oaks at one time in the early days of San Francisco had been cut down to the ground. Where one trunk was cut, half a dozen or more sprouts sprang up which, if left alone, would have formed a thicket of small scrub brush. In order to encourage these stems to become something resembling an oak, even if of small size, it was necessary to thin where the growth had become crowded. Twelve years ago they were given a light thinning, six years after they were again gone over, and where there were a dozen sprouts, but one or two now remain. As the trees grow in thickness of stem and breadth of crown, they must be given more space. After thinning the oaks, the pine grove and other plantations were attended to and given the necessary room for increased growth.

#### NURSERY.

A thousand trees and shrubs were taken from the nursery and transplanted to their permanent quarters, leaving the different breaks with rather a bare and stripped appearance, but as soon as the young trees were all planted out in the Park, the vacant spaces were plowed and manured, cross-plowed and harrowed and another crop of young seedlings and rooted cuttings were set out, where they will remain until of sufficient size to take their place in the Park grounds.



MAIN DRIVE



## STRUCTURES.

No structures of any extent were built during the year; the principal building constructed being the Lavatory for Men, in Concert Valley.

For the accommodation of drivers of horses exercising on the Speed Road, a range of protecting sheds was built. They are 128 feet long and 20 feet deep. They are appreciated by owners of good horses, who, until the sheds were built, had to scrape the heated horses in the chilling winds, a source of constant danger to the welfare of their animals.

Another range of sheds has been built in the stable yard to protect carts and wagons from the elements during the stormy weather, and now that each wagon has its place, the yard has a much more orderly appearance.

A stone wall was built along the front of the Park from Fell street to Fulton street. It is  $4\frac{1}{2}$  feet in height and from 12 to 18 inches thick, with "V"-shaped coping. This improvement gives a substantial-looking finish to the Park, and should be extended along the line of Fulton street to 10th avenue.

## FERTILIZERS.

Without Fertilizers in large quantities, it is impossible to create fine Park effects or to keep tree and other plant growth in vigorous health. Food is as essential to plant life as to animal life, and in plant food the natural soil of the Park is entirely destitute. This must be provided by artificial means. Good, strong, clayey loam is the best character of fertilizer that can be brought in to mix with the land, but this is expensive, and is becoming more so each year. Ten years ago, when loam beds were located near the Park line, good loam, delivered, cost only 40c. per cubic yard. The haul was then about a mile. Now the nearest bed of loam is about five miles' haul, which doubles the price. It takes 1,600 cubic yards to loam an acre 12 inches thick, making the cost \$1,200 per acre. Manure costs as much and is a good fertilizer, but affords temporary effects, whereas loam is permanent. Loam should be secured at once, as the lands on which the surface soils are now located will be very soon built upon and lost to the Park. After persistent efforts, some of the street sweepings west of Larkin street are now delivered to the Park. They are carted to our compost grounds, where they are mixed with surface soils, and after being rotted and the rubbish removed, are used, and make an excellent top dressing.

During the past year 47,396 cubic yards were purchased and delivered. Most of this has been used in the west end of the Park. Bids were called for and a contract was awarded to the lowest bidder, Mr. E. Kenny. It was spread mostly between the Middle and South Drives, and between the Middle Drive and the Speedway, where the young trees were in a starving condition. The stunted trees have already responded to this treatment, and the change in appearance of a year ago is quite marked. They have taken a new lease of life, pushed up stronger shoots, increased their leafage, and have a much brighter look generally. This demonstrates the necessity of giving proper nourishment to our forest growth if health and vigor are to be expected. Several experiments have been made with artificial fertilizers, but, so far, good loam and stable manures have given better results. However, further experiments with these fertilizers will be made this coming Fall, in the hope of finding some that will enrich the lawns and keep up the vigor of the forest trees.

Another contract was entered into with Mr. Sheerin to clean out and haul away the mud that for ages has been accumulating in the bottom of Mountain Lake. This deposit is very rich and makes very good soil. The waters of the lake receded to a very low point on account of the dry season, and the loam was easily shoveled and hauled. From this source came 6,837 cubic yards, which was spread, mostly along the line of D street.

#### PAINTING.

The Tank House was given two coats of paint, the Speed Road Sheds three coats, the Speed Road Gates two coats, the Conservatory, inside and out, two coats of white. It was expensive to paint the Conservatory on account of its shape and construction. Great care had to be exercised and a large amount of staging built and taken out again. To save the plants from being injured by the paint, they had to be covered with sheeting. The steps in the Conservatory Valley and in the Arizona Garden were given coats. The Boat House received two coats. The Sharon Building was painted inside and out (two coats), the grained and varnished surface renewed and the iron fences coated twice. The Ladies' Lavatory in Concert Valley was given two coats, as well as the Police and Ambulance Station. The new Lavatory for Men was given three coats, both inside and out, varnished and polished inside, and oiled and varnished outside. The Aviary was also repaired and repainted. In the spring, nine sprinklers were painted and varnished with two coats. In the Museum a great deal of painting and varnishing was done, and nearly all of the large wall cases had to be gone over and made dust-proof. The house occupied by Captain Thomson was overhauled and painted. Foreman Quigley's house was given two coats, and the Beach Chatelet was given two coats with Prince's metallic paint. Many of the fences and signs were also repaired.

#### RECREATION VALLEY.

No feature of the Park's many attractions gives greater pleasure to the youth of the city than these twenty acres of play-ground. It gives health and exercise to our young men, and pleases those who watch the games. Baseball and football are engaged in daily. Two back stops have been added at the request of the ball players, and more will be added as required. A recent innovation has been introduced in the playing of polo games.

#### CONSERVATORY.

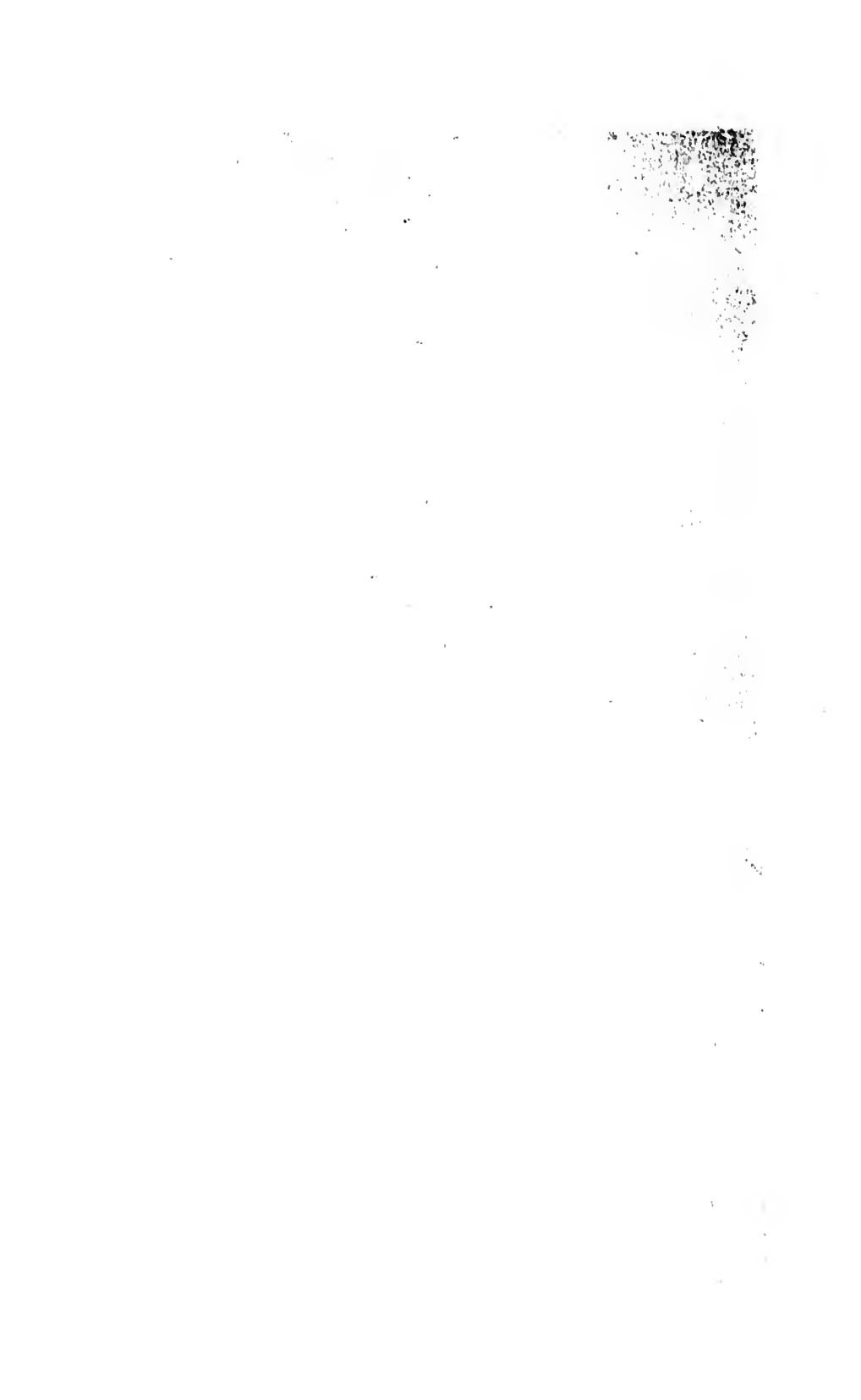
The fine collection of plants never looked better than they do today. The Caladium and Begonia are especially gay, and in the winter season the Orchids keep the cases attractive. Very few additions have been made to the collection during the year. The rarer plants are, however, increasing in size, and make a better display than when they were small.

The old floors, some of wood and some of concrete, have been replaced by new grooved concrete. The grooves in the floor carry off the surplus water, and make a visit to the Conservatory more comfortable and pleasant than heretofore. Several wooden plant-benches were replaced by benches made of concreted wire netting. These will stand the constant change of temperature better than wood.

RECREATION GROUNDS.

PHOTO-CHROMAL, BRITTON & REY, S.T.









# CONSERVATORY

PHOTO COURTESY, BETHUN K. N.



CHILDRENS QUARTERS  
(GIFT OF SENATOR SHARON)

PHOTO: SHARON, PHOTO: SHARON









(Gift of Wm. Sharon.)

## ELECTRIC LIGHTING.

JAPANESE GARDEN.

## EXTENDING THE BICYCLE ROAD.

### AREAS AND ROADS.

Golden Gate Park contains about.....	1,040	acres
Buena Vista " " " ".....	36	"
Mountain Lake Park contains about.....	20	"
Great Highway Park " ".....	70	"
Total Park area under the supervision of the Commissioners is about.....	1,165	"
Length of Park Drives, about.....	25 <sup>1</sup> / <sub>2</sub>	"
" " " " Bridle Roads, about.....	2 <sup>1</sup> / <sub>4</sub>	"
" " " " Bicycle Way, ".....	3 <sup>1</sup> / <sub>2</sub>	"
" " " " Footpaths, ".....	19 <sup>1</sup> / <sub>2</sub>	"
Area of Main Aviary.....	about 1 acre x 30 feet in height	

## PARK MUSEUM.

While the history of the Museum covering the year just closed records no great events, or enterprises of special importance, as compared with each of the previous three years of its existence, yet there has been a steady and healthy growth. Many notable improvements have been made, the collections have received substantial additions, a number of new display cases have been constructed, the exhibits in nearly every department have been overhauled, cleaned and otherwise cared for, unworthy and inferior objects weeded out, and the general classification and arrangement greatly improved.

The exterior, and much of the interior, of the buildings has been freshly painted and in other ways brightened up, and it is fair to boast, that in the past four years of its history, the Museum has never presented so attractive an appearance as now, and its present excellent condition and standing should be gratifying to both the Museum authorities and those who were instrumental in its creation.

With the vast quantities of unclassified exhibits arriving in rapid succession during the first three years, and without the advantages of years of time and consequent experience of a gradual growth, which the majority of similar institutions have enjoyed, it has been impossible to identify, classify, display and properly label all of the objects in the Museum, of which there are now nearly fifty thousand, consisting of nearly every class of material. With new cases and the rearrangement of the exhibits, however, much of the original crudeness of installation has disappeared.

The work carried on by the Curator and his attendants has been largely in the nature of maintenance and the customary routine work. Much time and attention has been devoted to the work of recording, numbering and labeling of exhibits, and much remains to be done which will require time to accomplish. Being without the aid of an experienced assistant most of the time, this very important work has gone along rather slowly. As the duties of the Curator are of a very miscellaneous character, all of the administrative work, even to its simplest details, devolving upon him, it is impossible for him to accomplish so much technical or scientific work in the course of a year, as do the curators in the larger and older institutions in the East, where the curators are specialists and their work confined to one department. Late in the past spring a young lady assistant was appointed, whose services have been very helpful in the overhauling, cleaning and rearranging of the different exhibits. At the present time, she is doing important work in the painting of numbers on individual objects, which labor was begun by the Curator one year ago, and has been carried on at intervals through the year, as time for such work could be spared from other essential duties.

In the spring of '98 the Park Commissioners received from the United States Fish Commission, Washington, an application for a loan of the collection of (89) gelatine casts of California food fishes belonging to the Museum, it being desired to form a part of the Government exhibit at the International Fisheries Exposition at Bergen, Norway, during the summer of 1898. The application receiving favorable action by the Board, the collection was prepared for transportation, considerable time being devoted to the work by the Museum force, and extra strong packing cases having been built for the purpose by the Park carpenters. The collec-



tion was shipped in May, 1898, and upon its return in June, 1899, was again placed on exhibition in new wall-cases, that had been constructed especially for their accommodation and protection in the Department of Natural History.

#### RECORDS.

The Museum has a Record in the way of a register entry of all exhibits and properties, and each article is numbered to correspond; also an alphabetical index of the names of all donors. There are also, in various stages of advancement, special catalogues of several departments. Some two years ago it was decided to adopt the Card System of cataloguing, and the Commissioners provided the necessary cabinet with 20,000 cards. The work at that time, however, being three years behind, it was found impracticable to carry on the system. To commence with the system at this time would mean the making of a record of the past four years' work, and as there are nearly fifty thousand articles to record, it is utterly impossible for the Curator to bring the work up to date without an experienced bookkeeper, and even then it would require several months to do it properly.

#### GUIDE BOOK.

The compilation of an Official Guide to the Museum has been completed and is now in the hands of the printers. It will give a description of all the principal exhibits, and will contain about 125 pages and a number of illustrations. A most important feature of the guide will be an index key to the different subjects, which will enable one to readily find the location of any object, or class of objects, on display in any of the twenty-five halls and galleries.

#### CARE AND CONDITION OF EXHIBITS.

The exhibits have received constant and careful attention, and are all in a first-class state of preservation. All articles of an organic nature, as basketry, woolen textiles, botanical specimens, buckskin, hides, feathers, furs, etc., have been thoroughly sprayed with active poison solutions as a protection against the depredations of moths, weavels and other insect pests.

#### EXPEDITION AND FIELD WORK.

On account of the vast amount of work in the Museum, as well as the lack of funds for such purposes, but little has been attempted in the way of expedition and field collecting. During the past winter and spring the Curator made two collecting excursions to Mendocino and Lake Counties, where he visited nearly every rancheria and camp of the Poma tribe of Indians, and secured over fifty rare and curious objects of the deft handiwork of this mysterious and rapidly disappearing race of aborigines, consisting of articles illustrating their social and domestic life, ceremonies, superstitions, mode of dress, arts and industries.

#### FIRE AND POLICE PROTECTION.

While there is no danger of conflagration, as the buildings are nearly fire-proof and no fire is allowed within excepting gas jets and watchmen's lanterns, yet the Museum is provided with fairly good appliances for fighting fire, which are kept in good order and tested at regular intervals. There are at present four fire-hydrants, with hose attached ready for in-

stant use, located within the buildings. As a further precaution, it has been decided by the Park Commissioners to add at least four more hydrants, three to the rear annex and one to the Royal Pavilion. There has already been added to the equipment during the year 300 feet of cotton hose, in fifty-foot lengths, which has been distributed in different parts of the buildings.

Details from the regular Park police force patrol the halls at all times, day and night, and the buildings are never without a watchman. In the Royal Pavilion a special officer is on guard every moment while the Jewel Department is open to visitors. Considering the large daily attendance, and the fact that the Museum is open every day in the year, and free to all classes of people, it is gratifying to be able to report that no acts of vandalism or misbehavior have occasioned the arrest of any person.

#### REARRANGEMENTS, IMPROVEMENTS IN INSTALLATION, AND MECHANICAL OPERATIONS.

The Department of North American Ethnology was entirely rearranged and the collections properly classified during the months of October and November. The stone implements representing the aboriginal occupation of the Pacific Coast, and California in particular, have been displayed in sloping flat-top table cases on the main floor of the department. The stone implements of the Eastern United States are installed in wall-cases at the south-east side of the hall. The Daggett collection of trappings of the Klamath River Indians occupies a wall-case by itself at the south-west side of the hall. The Alaska and Eskimo exhibits occupy wall-cases at the north end, while the modern trappings of many North American Indian tribes remain in the same wall-cases as before, at the east side of the hall, but with great improvement in the arrangement and classification.

A new feature that is attracting much attention is the Department of Basketry, in the hall formerly occupied by the Agricultural and Horticultural Exhibits. In this room are already displayed over four hundred specimens of basket-work, representing various aboriginal tribes on the Pacific Coast, from Central America to Alaska.

An opening for a doorway was cut through the brick partition between the halls devoted to Ethnology and Agriculture, virtually extending the Aboriginal Department to the Basket Room, as it is now called. It therefore became necessary to do away temporarily with the splendid display of agricultural products, which was especially important in the line of cereals of the State. These exhibits have necessarily been placed in storage until such time as additional room and space may be provided for their accommodation.

During May and June much difficult labor was performed by the Park mechanics in the altering, repairing and tightening of wall-cases in the different halls noted below: Ethnology of North America, Polynesian Hall, Oriental Hall, Coin and Bronze Rooms, Musical Instrument Room, and the Ceramic Halls. All of these cases, derived from the Midwinter Fair, were very defective, and caused a great deal of annoyance and unnecessary labor in keeping the exhibits clean, on account of the accumulation of dust through the numerous large cracks, open joints, etc. The cases were thoroughly overhauled and made as tight as it were possible, considering

their inferior and cheap construction. The tops were tightly covered with tongue-and-grooved flooring, and then with heavy canvas coated with water-proof paint. The door joints were bedded with rubber, all cracks filled, doors eased, defective locks replaced with new ones, glazing done where necessary, after which all cases were repainted. This necessitated the moving, cleaning and rearranging of every exhibit in those departments, all of which consumed much time of the Curator and attendants for more than a month.

Besides the above, much other mechanical work has been done throughout the institution by carpenters and painters. Cases, furniture, pedestals, platforms, shelves and other fixtures have been made, altered, repaired, glazed and painted. Two upright supports in the form of columns, with swing frames, containing the Bardwell Collection of prints of animals and birds, were placed by the carpenters in the Department of Natural History. Late in the autumn the exterior of the buildings was freshly painted, and this was followed in the spring by the painting of nearly all of the wall-cases, many floor cases, pedestals, platforms, railings, shelves, etc., within the Museum.

The floors have all been oiled twice, marble statuary has been cleaned with proper solutions, and adjustable shades have been hung in the picture galleries and three other halls to regulate the light.

#### CASES.

New exhibition cases have been constructed in and for the Museum during the year, as follows:

Two double table cases, sloping top, quartered oak, plate glass.

Two upright floor cases with counters, ebonized maple, plate glass.

Two upright floor cases with counters, mahogany, plate glass.

One upright floor case with counter, all steel, plate glass (for jewels).

Four upright floor cases, high, without counters, ebonized maple, plate glass.

One large upright floor case, white wood, plate glass (for deer).

One small upright floor case, white wood, 28-oz. glass.

The first eleven cases were built by contract by regular show-case manufacturers; the last two were built in the Park shops. In addition to the above, 97 running feet of large wall-cases, the same donated by the California State Mining Bureau (excepting the glass), was erected in the Department of Natural History, as follows: west end of gallery, 53 feet, for collection of casts of California Food Fishes; south-west side of gallery, 34 feet, for Birds of Prey; north-east alcove, 10 feet, for Guawing Mammals.

#### ACCESSIONS.

The additions to the collections during the year were mostly in the form of small accessions of a very miscellaneous character, and were either gifts or loans, as the institution has made no purchases of exhibits of any kind. Among the many valuable contributions, the most important of all was the generous gift of the Hon. Collis P. Huntington of New York, which consists of four valuable oil paintings, making altogether twenty-two rare paintings that he has given within the past three years.

Hon. M. H. de Young, who planned and founded the Memorial Museum, has continued to contribute to the enjoyment and education of his fellow-citizens. Of his many gifts, special mention should be made of

the splendid collection of pottery, numbering more than two hundred pieces, and representing various localities in old Mexico, as well as many aboriginal tribes in New Mexico and Arizona. His recent donation of relics of the Spanish-American war, collected for the Museum by his personal representative in the Philippines, attracts much attention and is very interesting.

From the Emporium and Golden Rule Bazaar has been received as a gift a most interesting and artistic group of life-size figures in wax and papier-mache, representing Christ's arraignment before Pilate.

An exhibit that seems to be appreciated by all and is certainly attracting a great deal of attention, is the collection of Aboriginal Basket-Work. To this exhibit more than three hundred choice and artistic examples have been secured and placed on display during the year, making one of the finest collections in existence.

Miss Sarah M. Spooner, whose magnificent artistic collections have been on deposit here during the past three years, has most generously consented to loan to the Museum, for a time, her exquisite art objects that have been on exhibition in the Boston Museum of Fine Arts for a number of years. Through the public spirit and courtesy of Miss Spooner, who has become deeply interested in the Museum enterprise, Californians will now have an opportunity of enjoying the most superb examples of decorated china and potteries ever brought to the Coast, and which as a private collection is probably unequaled in America. Besides the ceramics, which are from various parts of the world and of all ages, there are a great many rare articles of vertu, bric-a-brac, snuff boxes, jewels, jewel caskets, miniatures, carvings in wood and ivory, embroideries and other fabrics, and several pieces of antique furniture. The collection arrived from the East during the latter part of June, and is now being put in order for exhibition.

Accessions through exchange with individuals were as follows: Prof. L. E. Daniels, Brookston, Indiana, sent forty fossils from Mazon Creek, Ill., and in exchange the Museum sent him 136 land and marine shells. C. P. Wilcomb, San Francisco, Cal., furnished twenty-six large sea shells, and in exchange the Museum gave him nine fossils.

Appended to this report is a complete list of all donations received at the Museum during the past year.

JOHN LOMBARD BARDWELL.

An irreparable loss to the Museum and its patrons occurred on the 5th day of January (1899) by the passing away of John L. Bardwell, who had been one of the Museum's most active and generous benefactors. Mr. Bardwell was prominently known in the community as a pioneer, an antiquarian and a philanthropist,—a kind-hearted and genial friend to everybody. In the collecting of antiquities and objects of art and science he found his chief pleasures of life. In the Park Memorial Museum he manifested a deep interest from its beginning, and watched with loving care its phenomenal growth. It was a delightful practice with him to present to the Museum at frequent intervals odd and rare objects, which he was constantly collecting. It was two years ago, however, that he earned the gratitude of the community by the princely gift to the Museum of a large share of his magnificent private collection of Oriental Carvings, in wood and ivory, to the number of 583 pieces, in the gathering of which he devoted much of his time in the last fifty years.

## ACKNOWLEDGMENTS.

By the continued courtesy of the Wells, Fargo Express Company in transporting specimens and parcels over their lines free of charge, is due the grateful thanks of the institution and its friends. The Museum is also indebted to the following transportation companies for carrying members of the Museum staff and exhibits of various kinds: Southern Pacific Railroad, California Northwestern Railway Company, San Francisco & North Pacific Railway Company, the Pacific Mail, the Oceanic, and the Oriental & Occidental Steamship Companies.

## ATTENDANCE.

The total number of visitors to the Museum during the year ending June 30, 1899, was 357,649, and the attendance by month is shown in the following table:

1898.	
July .....	45,445
August .....	34,035
September .....	30,425
October .....	28,932
November .....	23,667
December .....	19,850
1899.	
January .....	24,385
February .....	30,392
March .....	20,848
April .....	31,783
May .....	38,892
June .....	28,995
Total .....	357,649

The largest attendance on any one day was Monday, May 1st, 1899, "Dewey Day," when 6,619 people visited the Museum. The smallest attendance on any one day was forty-two visitors, on Wednesday, December 14th, 1898.

## NUMBER OF ARTICLES IN THE MUSEUM.

A census taken for this report shows the total number of objects in the institution to be 48,865, distributed as follows:

Armor Hall (No. 21) .....	613
Art Metal Room (No. 10) .....	614
Bardwell's Old Curiosity Shop (No. 2) .....	801
Basket Room (No. 23) .....	474
Bavarian Room (No. 16) .....	324
Ceramic Room (No. 14) .....	256
Ceramic Hall (No. 15) .....	304
Coin, Medal and Bronze Hall (No. 12) .....	2,847
Colonial Room (No. 5) .....	170
Colonial Kitchen (No. 6) .....	326
Ecclesiastical Hall (No. 7) .....	196
Egyptian (Græco-Roman) Hall (No. 11) .....	684
Forestry Hall (No. 24) .....	404
Historical Room (No. 4) .....	413

Jewel Hall (No. 17).....	3,274
Library (No. 30).....	1,004
Mineral Hall (No. 25).....	2,322
Model and Map Room (No. 26).....	133
Musical Instrument Room (No. 13).....	108
Napoleon Room (No. 19).....	524
Natural History Gallery (No. 29), "Up Stairs".....	24,089
North American Indian Hall, "Department of Ethnology" (No. 8).....	3,416
Old German Room (No. 18).....	41
Oriental Hall (No. 9).....	919
Picture Gallery (No. 27).....	326
Picture Gallery (No. 28).....	98
Polynesian and African Hall (No. 22).....	441
Statuary and Memorial Hall (No. 1).....	189
Store Room (No. 30).....	2,926
Tapestry and Antique Furniture Hall (No. 20).....	307
Wells, Fargo & Co., Pioneer Hall (No. 3).....	322
<hr/>	
Total.....	48,865
Number of Loan objects included in the above.....	9,352
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Total Number of Articles, Actual Property of the Museum...	39,513



PARK LODGE

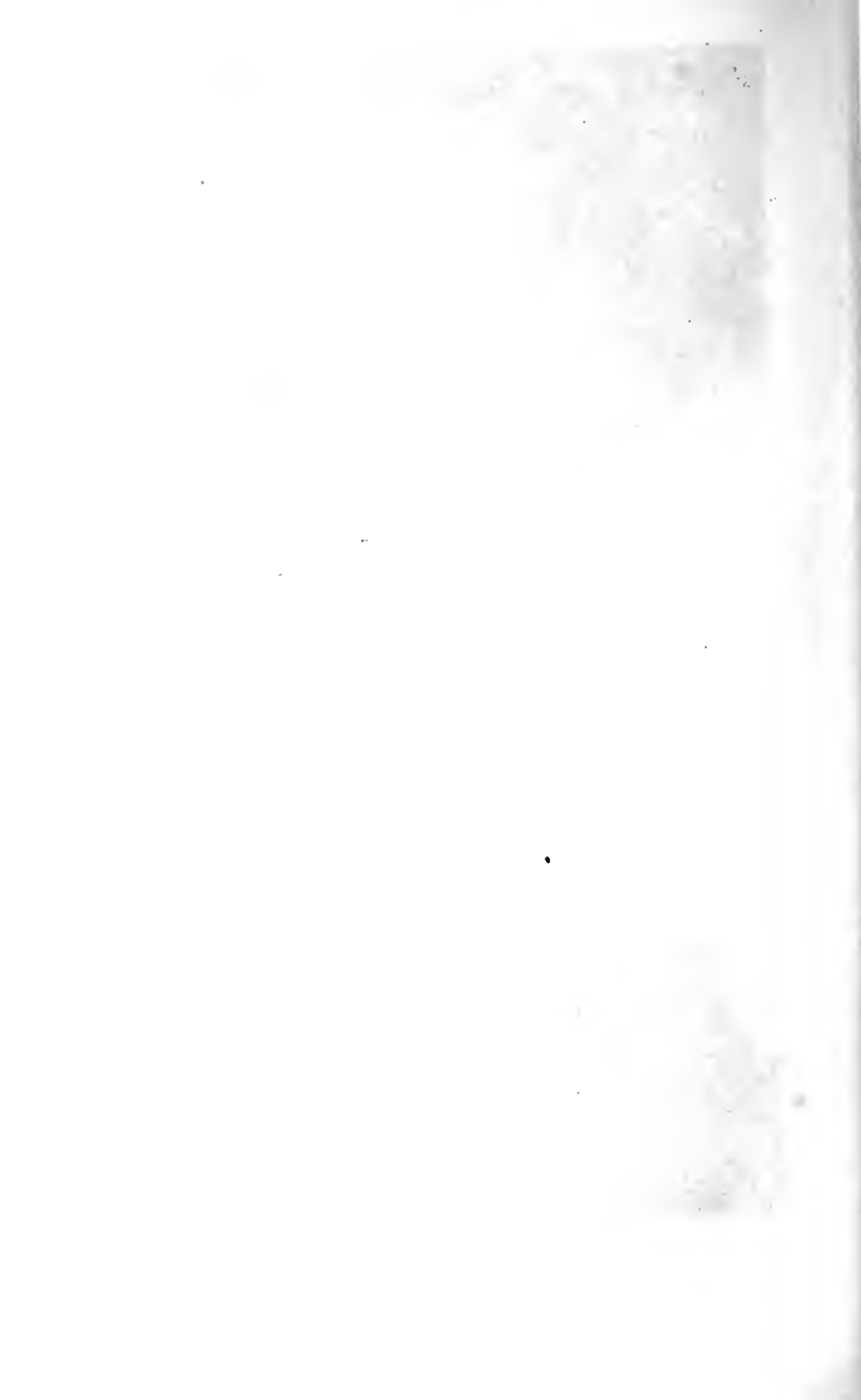






FERN DELL.

PHOTO LUNG-MIN, EASTERN S. NEW, 1911



## SECRETARY'S REPORT.

### RECEIPTS AND DISBURSEMENTS FROM JULY 1, 1898, TO JULY 1, 1899.

#### RECEIPTS.

Balance on hand .....	\$1,144 57
From taxes .....	248,221 86
From fines.....	35 00
From rent of boat-house.....	300 00
From rent of children's quarters .....	1,000 00
From sale of deer .....	250 00
From sale of old material.....	14 50
From R. Weill & Co.....	30 03
From rent, Park and Ocean R. R. Depot.....	100 00
	<u>\$251,095 96</u>

#### DISBURSEMENTS.

Construction account.....	\$131,640 84
Maintenance account.....	108,603 51
Miscellaneous account.....	2,107 31
Salaries—Superintendent and Secretary .....	5,700 00
	<u>\$248,051 66</u>

#### CONSTRUCTION ACCOUNT.

<i>Structures.</i> —	
Fences, sheds, stone walls, etc. Labor, luembr, paint, etc.....	\$7,433 11
<i>Water-works.</i> —	
Extension of distribution pipe system, including labor, fittings, etc...	\$10,520 73
<i>Drainage.</i> —	
Grounds, pipe, labor, etc.....	\$563 00
<i>Roads and Walks.</i> —	
Constructing South Drive to Beach.....	\$730 25
“ approaches to depot .....	27 00
“ bridle path.....	6,351 75
Walk to lake.....	444 50
Constructing walk to beach .....	2,347 50
“ walk to Stanyan street.....	51 00
“ bicycle road .....	1,333 50
“ walk to '49 Mining Camp.....	362 00
“ walks and roads in Buena Vista Park .....	2,760 80
“ road to 1st Avenue .....	78 00
“ drive around lake.....	2,168 68
Miscellaneous walks and roads, with labor and material .....	1,000 00
Powder, fuse, hardware and cement .....	443 72
	<u>\$18,098 70</u>

*Grounds.*—To labor, etc., of grading, forming, dressing, trimming and fertilizing grounds, and purchase of loam and manure and trees—

Improving grounds.....	\$11,101 55
Loam and manure.....	2,009 71
Extending meadow.....	2,400 00
Trees, ferns and seeds .....	881 60

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\$16,392 86

*Plantations, Forests and Reclamations.*—Planting trees; loam, etc., for reclaiming the sand drifts—

Labor.....	\$5,371 50
Loam.....	29,692 27
Trees and seed .....	146 35

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\$35,210 12

*Conservatory.*—

Plants, etc.....	277 32
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*Small Works.*—

Rock-work on Strawberry Hill.....	\$198 00
Constructing lakelets; labor, material, etc.....	13,089 94
Surveying .....	168 50

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\$13,456 44

*Stock and Implements.*—

Purchasing horses, deer, pea-fowl, etc.....	827 00
Trucks and implements.....	970 75

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\$1,797 75

*Museum.*—

New show-cases, alterations, etc.....	2,589 11
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*Nursery.*—

Grading nursery.....	870 60
Plants and trees.....	182 50

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\$1,053 10

*Electric Plant.*—

Labor, material .....	\$1,211 27
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#### MAINTENANCE ACCOUNT.

*Structures.*—Labor, lumber, paints, oils, hardware, etc., used in the general maintenance of buildings—

Labor .....	\$4,481 21
Material .....	4,298 07

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\$8,779 28

*Water-works.*—Labor in repairing, maintenance of water-works, coal and material—

Labor .....	\$5,158 05
Coal .....	4,330 90
Supplies (hardware, valvoline, etc.) .....	566 50

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\$10,055 45

*Drainage.*—

Labor for maintenance of sewers .....	403 30
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*Roads and Walks.*—Labor and material, repairing, cleaning, dressing, sprinkling roads and walks—

Maintenance of roads and walks .....	\$10,895 47
Sprinkling and repairing Buena Vista Park roads .....	313 00
"    "    "    Point Lobos road .....	318 00
"    "    "    Boulevard .....	535 75
Power and fuse, hardware and supplies.....	134 45

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\$12,196 67

*Grounds.*—Maintenance of garden, lawns and grounds generally—

Labor .....	\$55,570 87
Loam and manure .....	652 53
Supplies (hose, seed, hardware, etc.) .....	2,498 55

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\$58,721 95
*Forests, Plantations and Reclamations.*—

Labor .....	\$499 25
Hardware .....	8 75

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\$508 00
*Stock and Implements.*—

Labor .....	\$1,710 00
Repairing implements .....	3,291 58
Feed .....	1,730 68

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\$6,732 26
*Conservatory.*—The current cost of the conservatory, including labor, material, fuel, etc.—

Labor .....	\$5,042 85
Coal .....	1,244 10
Plants, bulbs and supplies .....	157 49

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\$6,444 44
*Police.*—

Labor .....	\$14,477 42
Gas, Police Station .....	91 25
Sundries (harness, etc.) .....	288 50

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\$14,857 17
*Lake.*—

Cleaning lake .....	\$191 00
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*Museum.*—

Labor .....	\$6,437 86
Coal .....	448 40
Gas .....	262 85
Supplies and general expenses .....	1,609 45

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\$8,758 56
*Electric Light.*—

Labor .....	\$1,644 65
Supplies (carbons, globes, etc.) .....	268 11

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\$1,912 76
*Music.*—

Weekly concerts .....	\$2,080 00
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## APPORTIONED ACCOUNTS.

*Stables.*—

Labor .....	\$2,963 85
Hay and grain .....	6,548 42
Veterinary services rendered .....	171 50
Supplies (harness), etc. ....	606 37

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\$10,290 14
*Nursery.*—

Labor .....	\$6,269 65
Supplies (seed, etc.) .....	279 13

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\$6,548 78

## MISCELLANEOUS ACCOUNT.

A number of current expenses, not chargeable under either of the foregoing heads, printing demands, office expenditures, telephone, stationery, insurance on buildings, freight and general expense...	\$2,107 31
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## WATER PIPE LAID DURING YEAR 1898-99.

		Feet
18	in.....	78½
7	in.....	5
5	in.....	10
4	in.....	52
3	in.....	2,553
2	in.....	2,591
1½	in.....	71¾
¾	in.....	1,012¾
½	in.....	126
		12,709½

## LOAM AND MANURE PURCHASED DURING YEAR 1898-99.

	Cu. Yards.	Cost.
Loam .....	47,938	\$30,759 60½
Manure .....	3,009	1,203 98
	50,947	\$31,963 58½

## DONATIONS TO THE PUBLIC INSTITUTIONS.

*School Department—*

## STARR KING SCHOOL.

Diosma alba .....	2	Chamaecyparis Lawsoniana.....	2
Polygala Dalmaisiana .....	2	Veronica (mixed) .....	3
Acacias (mixed).....	6	Buddleia globosa .....	1
Spartium junceum .....	2	Viburnum Tinus .....	1
Chrysanthemum frutescens.....	6	Pinus tuberculata .....	1

## SCHOOL ON TWELFTH AVENUE.

Buxus (cuttings) .....	200	Pritchardia filifera .....	2
Diosma alba .....	2	Cordyline australis.....	4
Chrysanthemum sinense.....	24	Chamaerops excelsa.....	2
Cinerarias .....	24	Roses in variety.....	12

## PROTESTANT ORPHAN ASYLUM.

Acacia melanoxylon.....	14	Lonicera chamaecerasus.....	1
" mollissima .....	1	" tartarica splendens .....	2
" decurrens .....	2	Chrysanthemum sinense.....	50
Tacsonia rosea.....	3	Alternanthera (cuttings).....	100

## GERMAN HOSPITAL.

Alternantheras .....	600	Begonia semperflorens Vernon.....	50
Cosmos .....	100	Hydrangea Hortensis .....	20
Dahlia .....	276	Grevillea robusta .....	2
Leptosyne maritima.....	100		

## CITY AND COUNTY HOSPITAL.

Dahlias .....			35
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## U. S. MINT.

Chrysanthemum sinense.....	12	Alternanthera perongchioides .....	200
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## SOLDIERS' HOME.

Pelargonium (cuttings).....	24	Ageratum (cuttings) .....	50
Carnation .....	24	Geranium .....	24
Fuchsias .....	24	Petunia .....	24
Iresine Collensi .....	50	Roses .....	24
Colens .....	24	Oleander .....	24
Heliotrope .....	24	Lobelia .....	24







## OAKLAND PARK.

Dahlias .....	25	Marguerites .....	50
Cosmos.....	50	Tagites .....	25
Nicotiana .....	5	Petunias .....	25
Begonias .....	50		

## CITY HALL (MAYOR'S C'T.)

Cordylina australis.....	2	Chamaerops excelsa.....	1
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## MARIA KIP ORPHANAGE.

Acacias in variety .....	12	Buxus, in variety .....	6
Spartium junceum .....	5	Erica mediterranea .....	6
Cordylina australis.....	6	Libocedrus decurrens .....	2
Sequoia gigantea.....	5	Escallonia, in variety .....	2
Veronica, in variety.....	24	Cestrum coccinea .....	2
Cupressus macrocarpa.....	12	Cerasus lusitanica .....	2
Eunonymus japonica .....	2	Abutilon, in variety.....	6
Chamaecyparis Lawsoniana .....	6	Hydrangea " .....	24
Thuja gigantea .....	2		

## HARBOR COMMISSIONERS (FERRY DEPOT).

Phoenix reclinata .....	1	Corypha australis .....	1
" sylvestris.....	1	Seaforthianelegans .....	2
Areca sapida .....	1		

## BOYS' AND GIRLS' AID SOCIETY.

Spartium junceum .....	2	Nicotiana affinis .....	1
Diosma alba .....	2	Chrysanthemum sinense.....	1
Polygala Dalmatisiana .....	2	Dahlias (mixed) .....	3
Abelia rupestris.....	1	Geraniums " .....	12
Datura coccinea .....	1	Clianthus puniceus.....	1
Plumbago capensis.....	1	Hydrangea Hortensis .....	2
Entelea arborescens.....	1	Echium argenteum.....	2
Marguerites (mixed) .....	12	Casuarina quadrivalvus.....	1
Ioichroma tubulosa.....	1	Cordylina indivisa lineata .....	2

## CITY AND COUNTY ALMS-HOUSE.

Alternantheras .....	1,250	Mathiola hybrida .....	150
Iresine .....	40	Poppies .....	50

## ALAMO SQUARE.

Acacia melanoxylon .....	20	Gynierium argenteum .....	12
" fragrans .....	25	Sequoia gigantea.....	16
" verticillata.....	25	Thuja .....	11
" latifolia .....	50	Pseudotsuga taxifolia .....	25
Cordylina australis.....	90	Casuarina (mixed) .....	6
Eunonymus japonica variegata .....	20	Phornium tenax .....	12
Pittosporum (mixed).....	47	Cupressus macrocarpa.....	115
Pinus " .....	48	Chamaecyparis Lawsoniana .....	24
Veronica " .....	20		

## ST. JOSEPH'S HOSPITAL.

Hydrangea .....	6	Dahlias.....	50
Clematis .....	1	Swainsonias .....	2
Ioichroma tubulosa.....	1	Chrysanthemums .....	6
Eupatorium pinnata .....	1	Geraniums .....	6
Marguerite Comtesse de Cham-		Malvaviscus coccinea .....	1
borg .....	4	Asters .....	20
Ficus macrophylla .....	1	Chili mexicana .....	2
Choidea ternata.....	1	Helianthus multiflora .....	4
Pimelia rosea .....	1	Gaillardia Lorenziana.....	2

## GIRLS' DAY HOME.

Phoenix.....	2	Miscellaneous plants for window	
Ficus macrophylla.....	2	boxes .....	56

## S. F. BOYS' CLUB.

Streptosolen Jamisonii.....	...	Mesembryanthemum.....	24
Chivanthus Cherrii.....	...	Dolichos Lablab.....	12
Mathiola hybrida.....	...	Cosmos.....	12
Phlox Drummondii.....	...	Lobelia cardinalis.....	12
Geraniums (mixed).....	...	"    speciosa.....	24
" Ivy ".....	...	Lonicera.....	12
Marguerites.....	36	Diosma alba.....	1
Tagetes.....	24		

LIST OF DONATIONS TO THE MUSEUM DURING THE YEAR  
ENDING JUNE 30, 1899.

Ajamer, Esther, San Francisco, Cal.....	1 silver coin, Mexico.
Anderson, J., San Francisco, Cal.....	1 ancient book, 1669; 1 old book, 1807; 1 antique pistol; 1 antique hair brush; 1 antique snuff box; 1 ancient stone knife; 1 ancient stone pipe bowl; all from Sweden.
Anonymous.....	2 Emu eggs, Australia; several marine shells.
Arnheim, J. S., San Francisco, Cal.....	128 marine and terrestrial shells; 72 small shells.
Bacon, F. M., San Francisco, Cal.....	1 old rifle; 1 Indian stone pestle, 1 Indian mealing stone, Mexico.
Barclay, Mabel E., San Francisco, Cal.....	1 rare domestic bantam hen.
Bardwell, John L., San Francisco, Cal.....	1 old sword, historical, presented to Chief Yellept of the Walla Walla tribe of Indians, Washington, by the Lewis & Clark expedition, 1797; 1 dagger with carved wood handle, from Japan; 1 photographic portrait of the Royal family of Great Britain; 1 large idol, sculptured wood, ancient, Japan; 1 old record book, historical relic; lithographic pictures of animals and birds of different parts of the world; 2 wooden rice ladles, Japan; 1 piece bizen ware, form of human figure, Japan; 1 grape and canister shot from Cavite, Philippine Islands; 1 ancient bronze figure, Japan; 1 antique mahogany card rack, England; 1 miniature stone cannon, Mexico; 1 antique tray of carved wood, Japan; 1 ancient wooden plow, New Mexico; 1 sculptured wood tray, Japan; 1 willow ptarmigan, from Alaska.
Barlow, Chester A., Santa Clara, Cal.....	18 ornithological and historical photographs.
Beckett, S. H., San Francisco, Cal.....	1 rare volute shell.
Blakeney, T. J., San Francisco, Cal.....	1 copy <i>National Intelligencer</i> , 1847.
Boston Museum of Fine Arts, Boston, Mass.....	"Twenty-third Annual Report," 1899.
Boulder Mining Company, San Francisco, Cal.....	1 large crystal of quartz, El Dorado County, Cal.
Brandstedt, E. F., San Francisco, Cal.....	1 silver coin, Persia.
Braverman, Max, Visalia, Cal.....	1 photograph of a large nugget of gold, Tuolumne County, Cal.; 1 scientific publication.
Brittan, Nathaniel J., San Francisco, Cal.....	1 ancient shrine of gold and black lacquer, with bronze Buddha, from Japan.
Bryant, J. M., Damariscotta Mills, Maine.....	1 antique bread toaster; 1 antique coffee mill; 1 antique "tin kitchen," 1 historical relic from the Alamo, San Antonio, Texas.
Bunton, R., San Francisco, Cal.....	1 specimen of sod or peat, from Ireland.
Burwright, San Jose, Cal.....	1 Belted kingfisher.
Bush, Mrs. A. E., San Jose, Cal.....	2 antique china pitchers, 18th century; 1 antique china sugar bowl; 3 antique silver spoons; 2 antique plates; 1 antique cup of chinaware.
Bush, Mrs. E. I., San Francisco, Cal.....	6 specimens of minerals from various localities in California
California State Mining Bureau, San Francisco, Cal.....	1 large specimen iron ore; 1 specimen sandstone concretion; 2 specimens of fossiliferous rock; 2 speci-

- mens of sulphur; 1 cast of footprints in sandstone of the extinct Moa (*Dinornis*); 4 framed photographs of natural history subjects; 2 plaster casts of ancient footprints in sandstone; lumber and framework of large show-cases used in the construction of wall-cases in the Department of Natural History.
- Callaert, T., San Francisco, Cal.....1 pair sabots, Belgium.
- Canfield, E. F., Del Monte, Cal.....1 rare fossil.
- Carman, Mrs. M. O., San Francisco, Cal.....5 river mussels; 1 terrapin. (young), all from Anglaize River, Ohio.
- Caproni, P. & Brother, Boston, Mass.....1 illustrated volume on reproduction of antique, mediæval and modern sculpture.
- Carroll, Joseph P., Randsburg, Cal.....1 large live tarantula. 2 desert land turtles, 1 tarantula; 1 specimen *Crotalophorus Cerastes* (side winder), species of desert rattlesnake, all from Mohave Desert.
- Carson, John B., San Francisco, Cal.....1 piece of cannon shell, of historical interest.
- Cassidy, Thomas M., U. S. S. Newark.....1 Mauser rifle; 5 Mauser rifle cartridges; 5 Mauser cartridge shells; 2 brass shells; 2 steel fuse plugs; 5 samples of gunpowder, relics of the Spanish-American war.
- Chutes Co., San Francisco, Cal.....1 red lynx.
- Cole, J. A., San Francisco, Cal.....1 china bowl, historical.
- Collins, Mrs. Augusta, San Francisco, Cal.....1 red-headed nuthatch bird.
- Creedon, George W., San Francisco, Cal.....1 serpent, preserved in alcohol.
- Crocker, George, San Francisco, Cal.....1 curious old gun, Mexico.
- Crockett, Caroline, San Francisco, Cal.....9 foreign silver coins.
- Culberson, J. H., Nevada City.....1 old pistol.
- Dabovich, Rev. Sebastian, San Francisco, Cal.....3 wooden idols or deities; 2 wooden totem poles; 1 pair moccasins; 1 Indian basket, all from the Thinket tribe of South-eastern Alaska.
- Daggett, Hon. John, Black Bear, Cal.....1 rare warbler bird; 1 deer moose, Cal.
- Dailey, Col. C. E., "Dailey's Camp by the Sea," San Francisco, Cal.....1 American Badger.
- De Sta Marina, Mrs. E. J., San Francisco, Cal.....1 U. S. half-dollar, silver, 1806.
- De Young, Hon. M. H., San Francisco, Cal.....6 naval plans and 2 bronze mortars, captured by the American forces at Manila; 1 Spanish battle flag; 2 officers' guidons, signal flags; 3 Spanish belt hooks; 8 Mauser rifle cartridges; 4 brass cartridges; 1 lead bullet, Manila; 1 insignia of the "King Kalakaua Order of Honor," Hawaii; 223 pieces of Indian pottery from old Mexico, New Mexico and Arizona.
- Dow, James J., San Francisco, Cal.....6 rattles of rattlesnake, Cal.
- Drossel, Dr. August, San Francisco, Cal.....6 antique almanacs.
- Duboce, Col. V. D., 1st Cal. Infantry, U. S. Volunteers, Manila.....1 model of native house in the Philippines.
- Edgerly, Mrs. L. M., San Francisco, Cal.....1 piece of historical china.
- Edwards, J. S., Tacoma, Washington.....1 armadillo, from Mexico.
- Emporium Co. of San Francisco, Cal.....1 group of wax and papier-mâché figures, representing "Christ Before Pilate." Consists of about forty life-size figures, with costumes, scenery and other accessories.
- Engle, J. P. & Son, San Francisco, Cal.....2 specimens of coast sugar-pine wood—*Pinus Lambertiana*—a splendid example of the undulatory curvature.
- Field Columbian Museum, Chicago, Ill. .... Publication 28, Anthropological Series, Vol. 2, No. 3; Publication 29, Report series, Vol. 1, No. 4; Publications 30, 31 and 32, Zoological series, Vol. 1, Nos. 11, 12 and 13; Publications 33, 34, 35, 36, Geological Series, Vol. 1, Nos. 3, 4, 5 and 6; Publications 37 and 38, Zoological series, Vol. 1, Nos. 14, 15.
- Glasford, O. R., East Berkeley, Cal.....1 old bank note of Rhode Island.
- Glass, W. H., Felton, Cal.....1 barn owl and 1 horned owl, in the flesh.
- Golden Gate Park, San Francisco, Cal.....1 red-winged blackbird; 1 marmot squirrel; 1 sparrow-hawk; 1 red-tailed hawk; 1 moose (cow); 1 bob white; 1 deer head; 1 valley quail; 1 double-crested cormorant; 1 Cooper's hawk; 1 varied thrush; 1 surf scoter duck; 1 grey squirrel; 1 Audubon's warbler; 1 Gamble's quail; 1 red-tailed mountain hawk; 1 little egret; 1 red-breasted hawk; 1 burrowing owl; 1 ring-necked pheasant—total of 20 specimens received in the flesh, and 8 eggs of guinea hen, from the Aviary and Animal Quarters in the Park.
- Greathouse, C. R. (through the Cal State Mining Bureau).....1 monster spider crab, from Japan.

- Griffith, B. A., San Francisco, Cal.....1 antique triple-barreled pistol; 1 giant chiton shell (*criptochiton stelleri*); 4 jars marine curiosities.
- Griffiths, John Radnor, London, England .....12 specimens of white-faced glossy ibis, Cal.
- Grosenberg, M., San Francisco, Cal.....1 ancient copper coin, Norway.
- Grow, Charles A., San Francisco, Cal.....1 piece of Continental currency, 1776.
- Gruber, Prof. F., San Francisco, Cal.....5 specimens of hippocampus (sea-horse); 1 specimen of syngnathus (pipe fish); 68 marine shells; 1 spotted kingfisher, Japan; 1 American cross-bill; 2 green woodpeckers, Japan; 1 scaly-breasted thrush, Japan; 1 snowy owl, mounted, Arctic Ocean; 1 flying squirrel, mounted.
- Hagenkamp, L. K., San Francisco, Cal.....1 black rat, Alaska.
- Hahn, Mrs. Dora, San Francisco, Cal.....1 native pillow, carved wood, Africa.
- Hagemann, Ph., San Francisco, Cal.....1 mountain lion, stuffed and mounted, Washington.
- Harrington, Mrs. F. C., San Francisco, Cal.....1 Amazon parrot.
- Hecht, Col. M. H., San Francisco, Cal.....1 piece of brass, relic from the wreck of the battleship Maine, exploded in Havana Harbor, Feb. 15, 1898.
- Hedges, George W., San Francisco, Cal.....7 ancient foreign silver and copper coins.
- Herriman, Miss M., San Jose, Cal.....1 egg of Amazon parrot from South America.
- Heyman, B., Phoenix, Arizona.....6 specimens of aragonite, polished, and 1 earthenware olla, Arizona.
- Hobbs, Captain, San Francisco, Cal.....1 piece of sculptured wood from the Spanish gunboat Maria Christiana.
- Houghton, Gen. J. F., San Francisco, Cal.....1 mounted head of a deer from Sonoma County, Cal.; 2 specimens of white-faced glossy ibis, Cal.
- Howard, Horace Jr.....1 platypus (duck-billed animal), from Tasmania.
- Hughes, Mrs I., San Francisco, Cal.....9 relics of the Spanish-American war, Philippine Islands.
- Hunt, Miss Jane, Newport, R. I.....3 copies of celebrated etchings; 1 specimen of pine, North Carolina; 2 photographs; one paper knife.
- Huntington, Hon. C. P., New York.....2 oil paintings by Piazzetta, "The Fortune Teller" and "The Merry Hungarians"; 2 oil paintings, "The Falconer's Recital," by Brozik, and "Blind Man's Buff," by W. Schultze of Munich.
- International Fisheries Exposition, Bergen, Norway.....1 diploma awarded for exhibit of collection of casts of California food fishes.
- Jeffreys, Mrs. Lena, Gold Run, Cal.....1 antique sword-cane; 1 ancient coin from Mexico; 1 coin from Central America.
- Koenigstein, Dr. O., San Francisco, Cal.....1 kitten with two heads and eight legs, preserved in alcohol.
- Keefe, Thomas, Randsburg, Cal.....1 specimen of desert fox, from Randsburg, Cal.
- La Franz, N. (through the California State Mining Bureau).....1 robber crab (*birgos latro*), Fanning Islands.
- Laidlaw, C. R., Oakland, Cal.....1 rare chiton shell, Lower Cal.
- Lettich, Mrs. Margaret, San Francisco, Cal.....1 antique canopy top bedstead, black walnut.
- Levit, Samuel, San Francisco, Cal.....1 model of bidarka (skin-covered canoe), Alaska, 1 native fish line of finely braided walrus skin.
- Levy, Joseph H., San Francisco, Cal.....1 curious piano harp.
- Lewellen, W., San Francisco, Cal.....1 Wellington half-penny token.
- Lloyd, Reuben H., San Francisco, Cal.....1 California condor. (*Pseudogryphus Californianus*), mounted.
- Lorentz, R. E., San Francisco, Cal.....1 Anna's humming bird.
- Madsen, Mrs. Jens, Butte, Montana.....54 Marine shells.
- Marshall, George, San Francisco, Cal.....3 specimens gold and silver ore, Peru.
- Miller, C. W., San Francisco, Cal.....1 historical newspaper.
- Miskin, A. S., Vallejo, Cal.....1 "Book of Common Prayer in Phonography."
- Montgomery, Frank, Exeter, Cal.....1 curious old washboard, made and used in the mines in early days.
- Murry, Mrs. J. P., Portersville, Cal.....1 specimen of Indian needlework, Tale River tribe, Tulare County, Cal.
- Myles, Mrs. K., San Francisco, Cal.....1 antique handkerchief.

- McDonald, Mrs. C., White River, Cal.....2 Indian stone mortars; 1 Indian stone knife; 1 Indian stone spear point; 1 piece Indian soapstone vessel; 1 specimen of chalcedony; 1 rock crystal; 4 specimens of fossil bone of mastodon; 2 specimens of fossil wood, from Tulare County.
- McNabb, James, San Francisco, Cal.....1 white-headed eagle (sea), Pacific Ocean.
- McNeil, W. H., San Francisco, Cal.....1 engraving of New York City in early days.
- McMillan, F. (through the Cal. State Mining Bureau).....1 specimen of fossil conglomerate, Shasta County, Cal.
- Narjot, Ernest, San Francisco, Cal.....1 egg of wild goose, 1 tobacco pouch, made of albatross skin from South America; 1 Indian arrow from Alaska; 2 old documents.
- Nathan, Dohrmann & Co., San Francisco, Cal.....1 copy in terra cotta of an ancient ivory beer mug, by Clodion; 4 pieces of art pottery, made in Stockton, Cal.; 1 old glass tankard, 16th century.
- Nuenburg, J., San Francisco, Cal.....1 skin of woodpecker; 1 skin of lark sparrow.
- Nevin, Washington, San Francisco, Cal.....1 cluster of cave stalactites from New Mexico.
- Norris, R. M., Schurz, Nevada ..... 1 Indian conical carrying basket.
- Odd Fellows Library (Trustees of), San Francisco, Cal.....1 old powder horn with shot pouch attached, used by Mrs. Lee, a Mormon lady, who shot seven hostile Indians from her tent, the latter being an attacking party, in early days, in Utah.
- Overmohle, H., San Francisco, Cal.....1 native spear, made of shark's teeth, South Sea Islands.
- Owens, L. D., Sunbright, Tenn.....1 Indian stone arrow point, Tenn.
- Patterson, J. L., Madera, Cal.....1 antique flint-lock musket.
- Pennington, G. W. & Sons, San Francisco, Cal.....1 set of old stamps and 1 set of new stamps from gold quartz mill; 1 oak stand.
- Patterson, Captain O. W., East Berkeley, Cal.....1 native spear made of shark's teeth, Fiji Islands.
- Proud, William, San Francisco, Cal.....1 road runner.
- Quarré, Emile, San Francisco, Cal.....2 specimens of minerals; 1 specimen of lava; 1 specimen of cement gravel; 1 piece of skull of Pacific walrus; 1 union shell, Alaska.
- Quigley, James P., San Francisco, Cal.....2 old shotguns.
- Ray, Milton S., San Francisco, Cal.....5 nests of California birds.
- Riley, J. H., San Francisco, Cal.....1 sash, 1 snare drum, 1 musket, all relics of the battle of Bull Run and Appomattox.
- Rosner, Mrs. E., San Francisco, Cal.....1 miniature jinrikisha, Japan; 1 miniature gondola, Japan; 1 native feather necklace, Hawaii; 1 cigar case, Siam; 1 tail of lyre bird, Japan.
- Rothschild, Joseph, San Francisco, Cal.....1 ship model in glass case.
- Rowland, A. C., Portland, Oregon .....12 specimens of opals in the rough condition from Mexico.
- San Francisco *Chronicle*, San Francisco, Cal.....Files of newspapers.
- Scales, Mrs. A. M., Lakeport, Cal.....1 specimen of marble, polished, from Lake County, Cal.
- Schintz, Jacob H., San Francisco, Cal.....12 silver coins and medals of Switzerland.
- Sealby, Captain Inman (S. S. Coptic), San Francisco, Cal.....1 tropic bird, mounted, from Japan.
- Smith, Mrs. J. R., San Francisco, Cal.....1 native dance dress; 1 native dance hat, from the South Sea Islands.
- Smithsonian Institution, U. S. National Museum, Washington, D. C.....1 publication, "A Study in Prehistoric Anthropology," 1890, by Thomas Wilson; 1 publication, "Basket-work of the North American Aborigines," 1890, by Thomas Wilson; 1 publication, "A Study of the Eskimo Bows in the U. S. National Museum," 1890, by John Murdock; 1 publication, "The Weapons and Wings of Birds," 1895, by Frederic A. Lucas; 1 publication, "A Study of the Primitive Methods of Drilling," 1896, by J. D. McGuire; 1 publication, "The Lamp of the Eskimo," 1898, by Walter Hough, Ph. D.
- Spreckels, A. B. and J. D., San Francisco, Cal.....2 steel shells, 1 ancient stone projectile, from Fort Philipe, near Manila.

Spring, E. S., San Francisco, Cal.....	1 steel die with which standard dollars were coined at the Carson City Mint.
Stanley, John P., Santa Rosa, Cal.....	1 specimen of fossil madrone wood, 1 specimen of fossil oak wood, Sonoma Co., Cal.
Steedman, Miss Lilian, Oakland, Cal.....	1 Indian pouch, made of bird skin and ornamented with feathers, from Alaska.
Stevens, Mrs. W. E., San Francisco, Cal.....	1 antique glass pitcher, 1 antique glass salt shake.
Suss, Mrs. John, San Francisco, Cal.....	1 crystal of quartz, Tulare Co., Cal.
Sonnenfeld, Samuel, San Francisco, Cal.....	15 pebbles of various stones, cut and polished for mounting as gems; 1 specimen carnelian; 2 specimens chalcedony, polished, and 2 specimens carnelian pebbles, cut as gems, from Pescadero Beach, Cal.; 1 opal, from Mexico; 1 Oriental emerald; 2 specimens of chalcedony, gems; 9 specimens of turquoise, Persia; 6 specimens of jade, China; 2 specimens of chrysoite.
Tackaberry, F. R., Boston, Mass.....	2 old broken bank notes
Thompson, L. H., Lodi, Cal.....	2 Indian stone mortars, 1 Indian stone pestle, Cal.
Tilton, C. O. (Pacific Mail S. S. Co.), San Francisco, Cal.....	4 relics of the Spanish-American war, Philippine Islands.
Toplitz, R. L., San Francisco, Cal.....	1 specimen of aragonite, from Arizona.
Verdenal, D. F., New York City.....	1 ancient bond, date 1727, from Maryland.
Vickers, Walter, Randsburg, Cal.....	1 old shotgun.
Ward's Natural Science Establishment, Rochester, N. Y.....	20 scientific publications.
Washington, P. R., Manvel, Cal.....	1 ancient grooved stone hammer.
Westoby, T., San Francisco, Cal.....	Chest of documents and miscellaneous curiosities, relics of the Spanish-American war, Manila.
Whiley, W., Alameda, Cal.....	1 curious and primitive plow, from China.
Whitelaw, Mrs. C., San Francisco, Cal.....	1 signet seal of Mary Queen of Scots.
Wilson, J. C., San Francisco, Cal.....	1 antique cavalry pistol.
Wilson, W. C. (through J. P. Carroll,) Randsburg, Cal.....	1 live chuckawalla, Mohave Desert, Cal.
Winslow, W. D., Santa Clara, Cal.....	1 Confederate States bond, \$1,000; 1 Confederate States note, \$100.
Worral, John, San Francisco, Cal.....	1 pair fancy wooden clogs, England.
Yates, Dr. L. G., Santa Barbara, Cal.....	Original plates, some in colors, of California birds.

## LOANS.

Following is a complete list of owners of loan objects on deposit in the Museum at the close of the fiscal year ending June 30, 1899:

Aitken, R. L., sculptor, San Francisco, Cal.....	3 statues and busts in plaster.
Boggs, L. W., Alturas, Cal.....	6 Indian stone objects.
Bromley, Mrs. W. L., San Francisco, Cal.....	2 historical objects.
Cal. State Mining Bureau, San Francisco, Cal.....	1 black-walnut exhibition case.
Capwell, Mrs. J. E., San Francisco, Cal.....	1 oil painting.
Cook, Clyde, San Francisco, Cal.....	1 oil painting.
Currier, E. W., San Francisco, Cal.....	1 water-color painting.
Daggett, Hon. John, Black Bear, Cal.....	802 ethnological objects, mineral specimens, deer horns, photographs, etc.
Devany, Lawrence, San Francisco, Cal.....	1 parchment with autograph of Emperor Napoleon.
Edrington, Miss E. P., Santa Cruz, Cal.....	4 pieces of antique jewelry.
Ethell, G. W., San Francisco, Cal.....	2 historical relics.
Filcher, Hon. J. A., San Francisco, Cal.....	1 old printing-press, first one brought to the State.
Ford, Mrs. Helen W., Santa Barbara, Cal.....	29 oil paintings, original studies of the old Franciscan Missions of California, by the late Henry W. Ford.
Garret, Mrs. William, San Francisco, Cal.....	5 old bronze church-bells.
Greany, W. F., San Francisco, Cal.....	21 aboriginal relics, in stone and earthenware.
Green, A., San Francisco, Cal.....	1 oil painting.
Grindley, Dr. T. R., San Francisco, Cal.....	1 antique china plate, 4 pieces of Mexican pottery.
Haber, F. A., San Francisco, Cal.....	1 oil painting.
Hahn, Mrs. William, Oakland, Cal.....	14 oil paintings.

Hewald, R. A., San Francisco, Cal.....	1 stand, imitation marquetry work.
Hill, Thomas, San Francisco, Cal.....	5 large oil paintings.
Hyde, Miss Helen, San Francisco, Cal.....	1 large oil painting.
Joseph, Nathan, San Francisco, Cal.....	2 Egyptian mummies; 1 mummy coffin.
Joseph, D. E., San Francisco, Cal.....	2 pictures, 2 pieces of antique furniture.
Judson, C. C., San Francisco, Cal.....	3 oil paintings.
Keyes, W. S., San Francisco, Cal.....	23 articles, consisting of pictures statuary, furniture, and miscellaneous curiosities.
Keyes, Miss A. C. (W. S. Keyes, guardian), San Francisco, Cal.....	16 articles, consisting of oil paintings and bric-a-brac.
Kruft, Joe, San Francisco, Cal.....	1 oil painting.
Kunath, Oscar, San Francisco, Cal.....	4 paintings in oil and pastel.
Latimer, L. P., San Francisco, Cal.....	1 oil painting.
McAdams, G. W., Flagstaff, Arizona.....	27 ethnological objects.
Menton, Mary T., San Francisco, Cal.....	1 oil painting.
Nordgren, Anna, San Francisco, Cal.....	2 oil paintings.
O'Hara, Miss Lilian, San Francisco, Cal.....	2 poker etchings.
Paulson, Mrs. Blanca, San Francisco, Cal.....	43 souvenir spoons.
Payne, Mrs. A. D. L., San Francisco, Cal.....	1 ancient prayer-book of papyrus.
Perbandt, C. Von, San Francisco, Cal.....	1 oil painting.
Primuz, Nelson A., San Francisco, Cal.....	1 oil painting.
Raschen, Henry, San Francisco, Cal.....	2 oil paintings.
Read, Mrs. Fanny E., San Francisco, Cal.....	2 large oil paintings.
Rogers, C. A., San Francisco, Cal.....	2 oil paintings.
Rose, S., San Francisco, Cal.....	13 opals, 2 carved trays of Mexican onyx.
Saint Germain Billiard Co., San Francisco, Cal.....	1 large plank of laurel wood.
Spooner, Miss Sarah M., San Francisco, Cal.....	544 articles, consisting of oil and water-color paintings, engravings, etchings, prints, tapestries, embroi- deries, ceramics, antique furniture, etc.
Stone, Miss, and Mrs., Robert Bruce, San Francisco, Cal.....	the "Marianne Mathieu" collection of water-color sketches of California wild flowers; total 38 pieces.
Tyler, Miss Cordia, Portersville, Cal.....	1 Indian basket.
Union Iron Works, San Francisco, Cal.....	1 model of the United States coast defense monitor Monterey.
Vice, William, San Francisco, Cal.....	1 oil painting.
Weaver, Mrs. Ellen A., San Francisco, Cal.....	41 curiosities from the Sandwich Islands.
Wells, Fargo & Co., San Francisco, Cal.....	312 historical articles.
Wideman, W. W., San Francisco, Cal.....	45 relics of the Spanish-American war.
Wilcomb, Charles P., San Francisco, Cal.....	7,296 articles, consisting of ethnological objects, Indian stone implements, baskets, Colonial antiquities, min- eral specimens, precious and semi-precious stones, old paper money, war relics, natural history specimens and miscellaneous curiosities.
Winterburn, George H.....	2 oil paintings.
Yates, Dr. L. G., Santa Barbara, Cal.....	2 Indian stone ollas.
Yelland, R. D., San Francisco, Cal.....	6 oil and water-color paintings.

## LIST OF SEEDS FROM BOTANIC GARDEN—SIDNEY.

Acacia Baileyana	Baueri rubicoides
" diptera	Baubiniapuripurea
" discolor	Boronia floribunda
" Farnesiana	" ledifolia
" longifolia	Bossiaea scolopendria
" prominens	Callistemon lanceolatus
" prunosa	" rigidus
" suavolens	Callitris calcarata
Acronychia Baueri	" cupressiformi
Angophora cordifolia	Calodendron capensei
" intermedia	Carmichaelia Austral
" subvelutina	Casuarina distyla
Backhousia myrtifolia	" paludosas
Barkleya syringifolia	" quadrivavus
Baloghia lucida	Clerodendron tomentosum

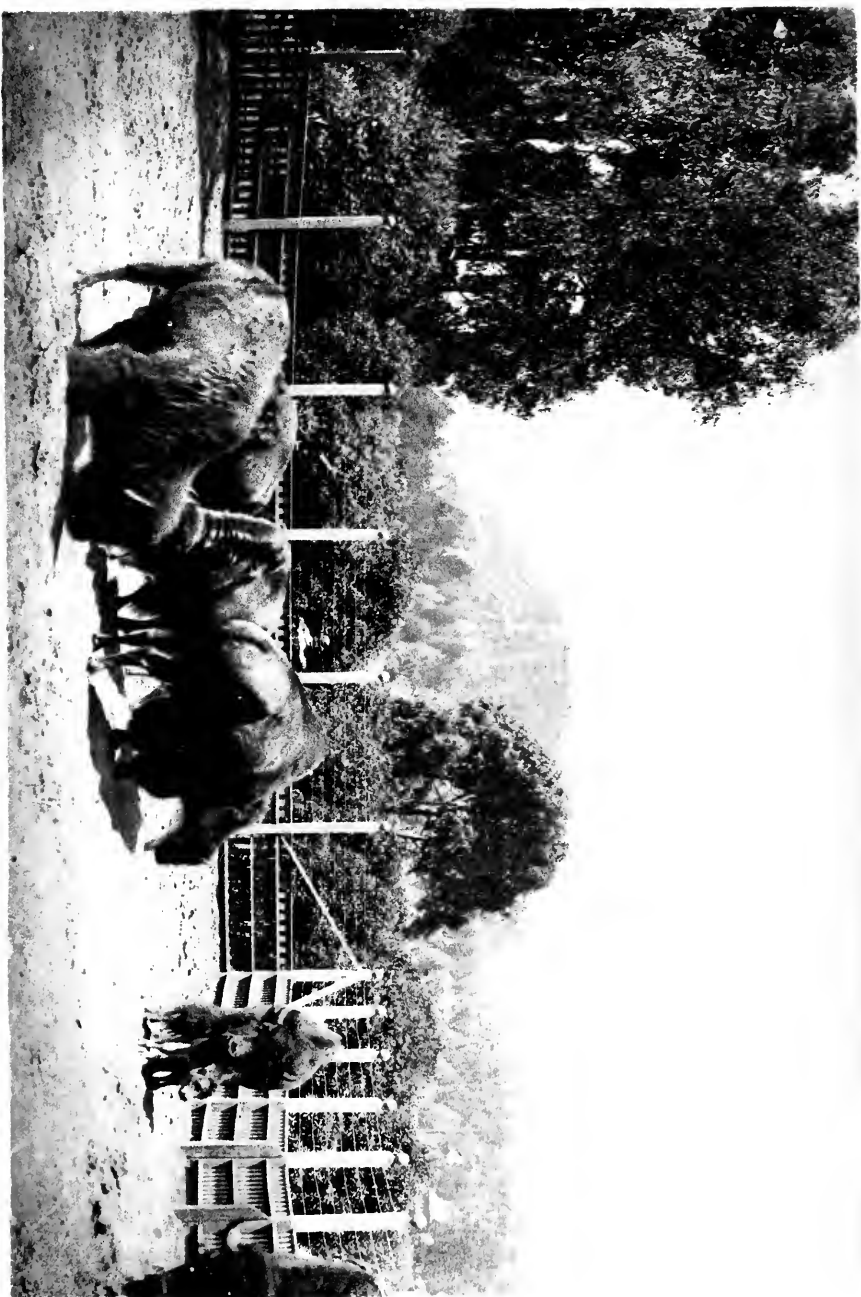
## LIST OF SEEDS FROM BOTANIC GARDEN, SYDNEY—Continued

Cordyline Australis	Hibiscus heterophyllus
" stricta	" splendens
Correa speciosa	Hovea longifolia
Crinum Moorei	Hymenosporum flavum
" pedunculata	Indigofera Australis
Dillwynia ericocfolia	Kentia Fosteriana
Diplothemium maritimum	Lagunaria floribundia
Dodonaea multijuga (last name doubtful)	Laportea photinophylla
Doryanthes Palmerii	Lysenema pungens
Eranthemum variabile	Macrozamia secunda
Eriosebmon buxifolius	Muraltia Heisteria
" Croweri	Omalanthus populifolius
" lepidotus	Oxylobium cordifolium
" umbellatus	" trilobatum
Eucalyptus amygdalina	Patersonia glauca
" pilularis	Philotheca Australis
" resinifera	Pittosporum ericouma
Eugenia Moorei	Podocarpus elata
Ficus Bellingerii	Pomaderris ferruginea
" macrophylla	Pultenaea daphnoides
" rubignosa	" incurva
Gaura Lindheimerii	Ptychosperma Cunninghamii
Gompholobium latifolia	Salisburia adiantifolia
Grevillea asplenifolium var. Shepherdii	Stenocarpus sinuatus
" Banksii	Sterculia acerifolia
" buxifolia	" diversifolia
" caleyi	Thapsia decipiens
" oleoides	Ungnadia speciosa
" rinearis	Vitex acuminata
" robusta	Viminaria denudata
Helichrysum rutidolepsis	Xanthorrhoea arborea
Heterodendron oleofolium	Zieria loevigata.

## DONATIONS OF PLANTS RECEIVED DURING THE YEAR.

ACADEMY OF SCIENCES.			
Miss A. Eastwood,		Kalmia glauca seed.....	1 pkts
Noline Bigelowii seed.....	2 pkts	Magnolia macrophylla seed.	1 "
Roots from Santa Catalina Is	3 "	Magolia glauca seed.....	1 "
Mr. Gallagher,		Rhododendron Maxium seed	1 "
Musa seeds.....	2 "	Mr. W. H. Metson,	
Mrs. H. Drain,		Calla Lily roots.....	4 sks
Phasaeolus caracalla seed.....	1 "	Also seed (Sunset)	
Mrs. Stow,		Mr. Benson,	
Astata permen seed.....	1 "	Cerantonia Siliqua seed.....	1 pkt
Dr. O. O. Burgess,		Miss Eastwood,	
Pyrus Aucuparia seed.....	3 "	Chicot .....	1 "
Polygonum aviculare seed....	1 "	Prosopis pubescens .....	1 "
Sambucus nigra seed.....	1 "	" pilifera.....	1 "
James Stetson,		Roots from Guadalope Is.....	So "
Forreya Californica plant.....	1 "	1 Cone, unlabeled	
J. H. H. Boyd, Gage Sequatchie Co. Tenn.,		Mr. N. Ohlandt,	
Hamamelis Virginica seed....	1 pkts	One magnificent specimen of the	
		Araucaria imbricata, 35 feet in height.	





BUFFALO PADDECK.

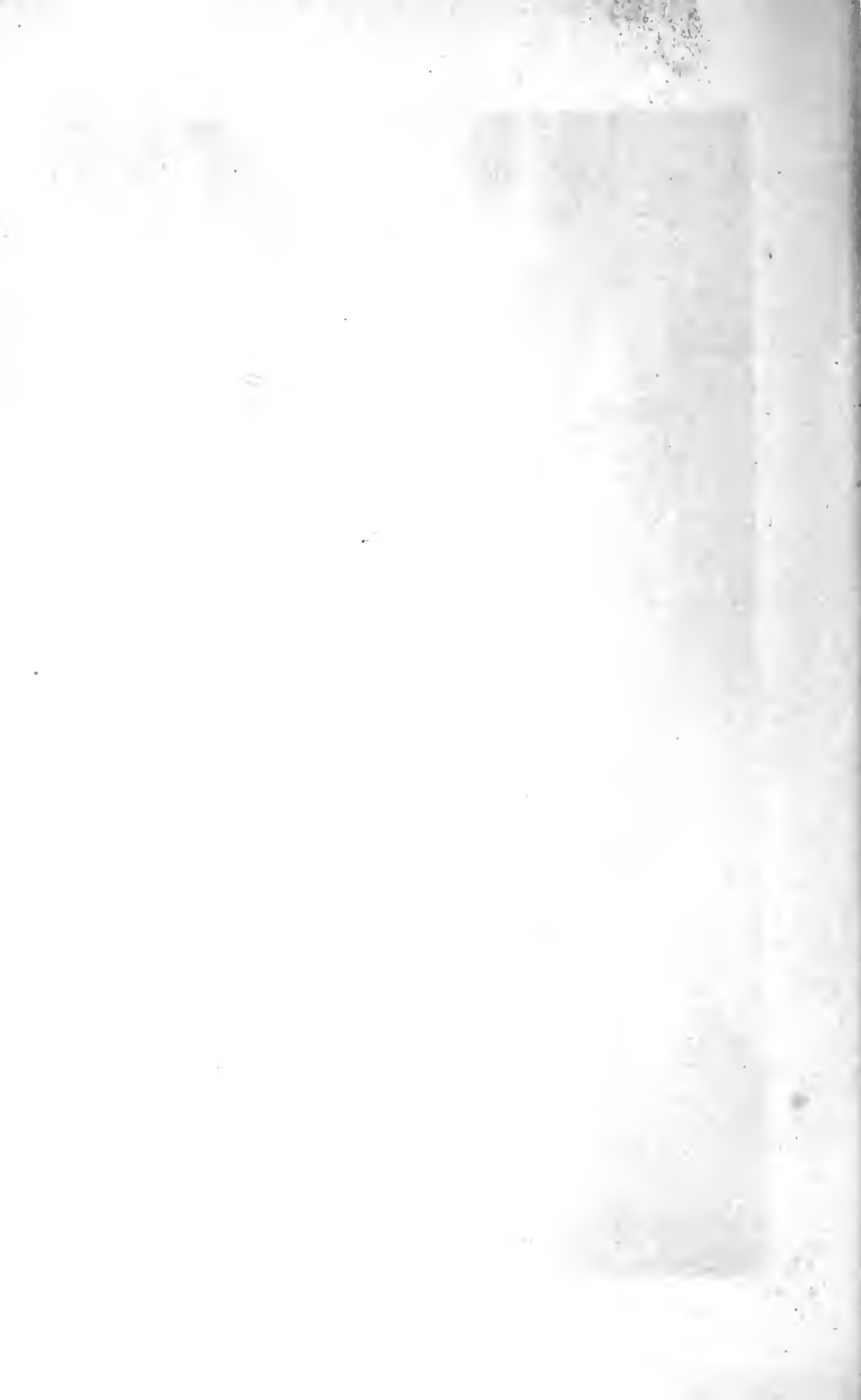
PHOTO-CHROME. BRITTON & REY, S.F.





THE ELKS

PHOTO-CHROME, HUTTON & MANN



## VINES IN THE PARK.

Actinidia arguta	Lapageria alba	Smilax aspera mauritan-
“ polygama	Lathyrus odoratus	Solanum jasminoides [ica
Ampelopsis Veitcheii	“ tuberosus	Senecio mikanioides
“ quinquefolia	“ sylvestris	Tacsonia Buchanani
“ Royalii	“ “ platy-	“ Beechærie
Akebia quinata	phyllus	“ Collisora
Arctostaphylos Uva-ursi	Linaria Cymbalaria	“ floribunda
Aristolochia ornitho-	Lonicera involucrata	“ Grenadillo
“ cephalo-	“ punicea	Tacsonia Van—Volxemii
“ Siphio	“ californica	“ ignea
Bignonia Australis	“ caprifolium	“ manicata
“ jasminoides	“ japonica	“ magenta
“ Tweediana	“ “ variegata	“ rosea
Bignonia Thunbergiana	“ grandiflora	“ Vari Vlonci
Clematis aristata	“ Periclymenum	Thunbergia alata
“ coccinea	Manettia cordifolia	“ mysorensis
“ Jackmanii	“ bicolor	Trachelospermum jasmin-
“ paniculata	Mandevilla Suaveolens	oides
“ japonica	Maurandya rubra	Tropaeolum Lobbianum
“ Flammula	“ alba	“ majus
“ Van Houtte	“ Barclayana	“ speciosum
Cobaea Scandens	“ scandens	“ canariensis
“ San Salvador	Mina lobata	Tecoma grandiflora
Dolichos Lablab	“ sanguinea	“ capensis
Eccecmocarpus Scaber	Momordica involucrata	“ radicans
Ficus repens	Muehlenbeckia complexa	Vitis amizonica
Hardenbergia monophylla	Myrsiphyllum aspara-	“ australis
Hedera Helix	goides	“ Berladeni
“ “ Donerailensis	Passiflora australis	“ Bourguiana
“ “ Marginata	“ cærulea	“ californica
Humulus japonica	“ edulis	“ Champinii
“ “ variegata	“ princeps	“ cordifolia
“ Lupulus	Periploca græca	“ Davidana
Ipomoea ficifolia	Physianthus albens	“ Lindenii
“ Hardingii	Phaseolus Caracalla	“ riparia
“ hederacea	Plumbago capensis	“ rupestris
“ “ limbata	“ Larpentæ	“ solonis
“ Learii	Rubus fruticosus	“ monticola
“ Empress of India	“ “ dentata	Wistaria Alba
“ Emperor of Japan	“ parvifolius	“ “ flora plena
“ Count Ito	“ rosæfolius	“ chinensis
“ Giant Imperial	Smilax hastata	“ “ macro-
“ Goodalii	“ ornata	botrys
Lapageria rosea	“ aspera	Wistaria frutescens

## CATALOGUE OF TREES AND SHRUBS IN GOLDEN GATE PARK.

<i>Abelia rupestris.</i>	<i>Acer campestra.</i>	<i>Baccharis Douglasii.</i>
<i>Abies amabilis.</i>	" <i>cercinatum.</i>	<i>Rauhinia purpurea.</i>
" <i>balsamea.</i>	" <i>dasycarpum.</i>	<i>Benthamia fragifera.</i>
" <i>bracteata.</i>	" <i>macrophyllum.</i>	<i>Berberis capitos.</i>
" <i>brachyphylla.</i>	" <i>platauoides.</i>	" <i>Darwinii.</i>
" <i>cephalonica.</i>	" " <i>Schwedleri.</i>	" <i>dulcis.</i>
" <i>concolor.</i>	" <i>polymorphum.</i>	" <i>integerrimum.</i>
" <i>firma.</i>	" <i>Pseuda-platanus.</i>	" <i>japonica.</i>
" <i>grandis.</i>	" <i>Pseuda platanus pur-</i>	" " <i>Beali.</i>
" <i>magnifica.</i>	<i>pureum.</i>	<i>Berberis japonica inter-</i>
" <i>nobilis.</i>	" <i>rubrum.</i>	<i>media.</i>
" <i>Nordmanniana.</i>	" <i>saccharinum.</i>	<i>Berberis nervosa.</i>
" <i>pectinata.</i>	" <i>tartaricum.</i>	" <i>stenophylla.</i>
" <i>pinsapo.</i>	" <i>Werii laciniata.</i>	" <i>Thunbergii.</i>
" <i>pumila.</i>	<i>Acuba japonica.</i>	" <i>Vulgaris.</i>
" <i>subalpina.</i>	<i>Adgestis climatidea.</i>	<i>Berchemia racemosa.</i>
" <i>Veitchi.</i>	<i>Æsculus californicus.</i>	<i>Betula alba.</i>
<i>Abutilon aurea.</i>	" <i>flava.</i>	" " <i>fastigiata.</i>
" <i>Boule de Neige.</i>	" <i>gigantea.</i>	" " <i>fastigiata lacin-</i>
" <i>frutecens.</i>	" <i>glabra.</i>	<i>iata pendula.</i>
" <i>rubra.</i>	" <i>Hippocastanum.</i>	" " <i>purpurea.</i>
" <i>Souv. di Bon.</i>	" <i>japonica.</i>	" " <i>lenta.</i>
" <i>striatum.</i>	" <i>pavia.</i>	" " <i>lutea.</i>
" <i>Thomsoni var.</i>	" <i>rubicunda.</i>	" " <i>papyracea.</i>
" <i>vexillarium.</i>	" <i>turbinata.</i>	" " <i>populifolia pen-</i>
<i>Acacia armata.</i>	<i>Alianthus glandulosa.</i>	<i>dula.</i>
" <i>brachybotrya.</i>	<i>Albizzia Julibrissin.</i>	<i>Boldoa fragrance.</i>
" <i>calamifolia.</i>	<i>Alnus glutinosa.</i>	<i>Bouvardia fragrance.</i>
" <i>calamistrata.</i>	" <i>incana.</i>	<i>Brachychiton acerifolium.</i>
" <i>capensis.</i>	" <i>serulata.</i>	" " <i>populus.</i>
" <i>cavenia.</i>	<i>Amorpha crocea lanata.</i>	<i>Broussonetia papyrifera.</i>
" <i>citriodora.</i>	" <i>fragrance nana.</i>	<i>Buddleia globosa.</i>
" <i>coccinea.</i>	" <i>fruticosa.</i>	" <i>Lindleyana.</i>
" <i>cultriformis.</i>	" <i>Lewesii.</i>	" <i>Madagascariensis.</i>
" <i>cuneata.</i>	" <i>linata.</i>	<i>Bupleurum fruticosum.</i>
" <i>dealbata.</i>	<i>Amygdalus alba.</i>	<i>Buxus altissima.</i>
" <i>decurrens.</i>	" <i>communis.</i>	" <i>argentea.</i>
" <i>discolor.</i>	<i>Amygdalus communis flore</i>	" " <i>Var.</i>
" <i>Farnesiana.</i>	<i>pleno.</i>	" <i>chrysophylla.</i>
" <i>flexuosa.</i>	<i>Amygdalus fruticosa.</i>	" <i>coriacea.</i>
" <i>floribunda.</i>	" <i>Nonpareil.</i>	" <i>lucida.</i>
" <i>fragrance.</i>	" <i>purpurea.</i>	" <i>myrtifolia.</i>
" <i>homotophylla.</i>	<i>Anona Cherimolia.</i>	" <i>rotundifolium.</i>
" <i>horrida.</i>	" <i>triloba.</i>	" <i>sempervirens.</i>
" <i>implexa.</i>	<i>Aphelandria aurantiaca.</i>	" <i>sempervirens aurea.</i>
" <i>latifolia.</i>	<i>Aralia spinosa.</i>	" <i>suffruticosa.</i>
" <i>linearis.</i>	<i>Araucaria Bidwellii.</i>	" <i>salicifolia.</i>
" <i>longifolia.</i>	" <i>Cookii.</i>	<i>Callicoma serratifolia.</i>
" <i>lophantha.</i>	" <i>excelsa.</i>	<i>Callistemon Brachyandrum.</i>
" <i>melanoxydon.</i>	" <i>imbricata.</i>	" <i>lanceolata.</i>
" <i>mollissima.</i>	<i>Arbutus Menziesi.</i>	" <i>linearis.</i>
" <i>myrtifolia.</i>	" <i>Unedo.</i>	" <i>rugulosus.</i>
" <i>paradoxa.</i>	<i>Arctostaphylos glauca.</i>	" <i>speciosus.</i>
" <i>Persiana.</i>	" <i>pungens.</i>	" <i>Salignus.</i>
" <i>pycnantha.</i>	" <i>tomentosa</i>	<i>Callitris cupressiformis.</i>
" <i>pyramidalis.</i>	<i>Armeniaca Moorpark.</i>	" <i>Gunnii.</i>
" <i>retinoides.</i>	" <i>vulgaris.</i>	<i>Calluna vulgaris.</i>
<i>Acacia Ricciana.</i>	<i>Artemisia glauca.</i>	<i>Calodendron capensis.</i>
" <i>Reimerii.</i>	<i>Astragalus bertiegens.</i>	<i>Calothamnus purpurea.</i>
" <i>Salicina.</i>	<i>Azalea indica.</i>	" <i>quadridifus.</i>
" <i>sophore.</i>	" <i>occidentalis.</i>	<i>Calycanthus floridus.</i>
" <i>trovisima.</i>	" <i>sinensis.</i>	" <i>Humboldtii.</i>
" <i>verticillata.</i>	<i>Azara macrophylla.</i>	" <i>Occidentalis.</i>

## CATALOGUE OF TREES AND SHRUBS IN GOLDEN GATE PARK--Continued

Camellia japonica.	Cestrum aurantiacum.	Crataegus Crus-galli.
"  sasanqua.	"  coccinea.	"  Oxyacanthus.
"  sassantora.	"  elegans.	"  "  elegans.
Camphora officianalis.	"  rosea.	"  "  pendula.
Caragana Altagana.	Chamaecyparis ericoides.	"  "  pyramidalis.
"  arborescens.	"  Lawsoniana.	"  "  rubra.
Careya olivaeformis.	"  obtusa.	"  "  sanguinea.
Carpinus Betulus.	"  plumosa.	Cryptomeria chinaphila.
Cassia corymbosa.	Chamaecyparis obtusa plu-	"  "  elegans.
"  floribunda.	"  mosa aurea.	"  "  japonica.
Castanea americana.	Chamaecyparis obtusa plu-	Cunninghamia sinensis.
"  glabra.	"  mosa argentea.	Cupressus argentea.
"  japonica.	Chamaecyparis squarrosa.	"  Braziliensis.
"  vesca.	Chimonanthus fragrance.	"  chiuensis.
Castanopsis chrysophyllis.	Chionanthus virginica.	"  funebris.
Castanospermum australe.	Choisya ternata.	"  Goveniana.
Casuarina equisetifolia.	Chorizema illexifolia.	"  Guadalupensis.
"  glauca.	Cinamomum peduncu-	"  Knightiana.
"  suberosa.	"  latum.	"  lusitanica.
"  quadrivalvis.	Cinamomum sericeum.	"  macrocarpa.
Catalpa aurea.	"  zeylanicum.	"  "  aurea.
"  bigonioides.	Cistus albidus.	"  "  variegata.
"  Kaempferi.	"  aurantiaca.	"  McNabiana.
"  speciosa.	"  landaniferus.	"  pyramidalis.
Ceanothus africanus.	"  maculatus.	"  sempervirens.
"  azureus.	"  major.	"  torulosa.
"  californicus.	"  rosea.	Cydonia japonica.
"  ceres.	"  salvifolius.	"  "  vulgaris.
"  integerrimus.	Citrus chinensis.	Cytisus albus.
"  prostrata.	"  trifoliata.	"  arizonica.
"  sessilifolia.	Clerodendron speciosum.	"  bullatus.
"  thrysaeflorus.	Clethra arborea.	"  californicus.
Cedrus atlantica.	Clianthus Dampieri.	"  canariensis.
"  Deodara.	"  puniceus.	"  capitatus.
"  Libani.	Coccoloba platyclada.	"  elaborata.
Celastrus articulatus.	Colletia ferox.	"  elongatus.
Celtis australis.	Colquhonia vistata.	"  glaharata.
"  cordata.	Colutea cruenta.	"  hirsutus.
"  crassifolia.	"  paniculata.	"  linearis.
"  occidentalis.	Coprosma Baueriana.	"  nigrans.
Cephalotaxus Fortunei.	Coprosma Baueriana varie-	"  proliferus.
Cerasus Avium.	"  gata.	"  purpureus.
"  "  alba-plena.	Coprosma rubusta.	"  quercifolius.
"  ilicifolia.	Corchorus japonica.	"  racemosus.
"  japonica pendula.	Coriaria myrtifolia.	"  scoparius.
"  Lanrocerasus.	"  ruscifolia.	"  sessilifolius.
"  lusitanica.	"  sarmentosa.	"  spinosa.
"  Napoleon Bigar-	Cornus macrophylla.	"  triflorus.
"  reau.	"  pubescens.	Dammara australis.
"  Padus.	"  sanguinea.	"  "  robusta.
"  ranunculiflora.	"  Spathii.	Daphne indica.
"  serrulata.	"  suecica.	"  "  variegata.
"  Sieboldii flora-	"  nuttallii	"  "  laureola.
"  rosea.	Coronilla glauca.	"  "  odora.
"  tartarian.	"  "  variegata.	Daphniphyllum macro-
Ceratonia Siliqua.	"  juncea.	"  phyllum.
Cercidophyllum japonica.	Corylus americana.	Darwinia citriodora.
Cercis canadensis.	Corynocarpus kevigatus.	Dasycriidium cupressinum.
"  chinensis.	Cotoneaster buxifolia.	Datura arborea.
"  siliquastrum.	"  microphylla.	"  "  sanguinea.
Cercocarpus betulafolius.	"  thymifolia.	"  "  suaveolens.

## CATALOGUE OF TREES AND SHRUBS IN GOLDEN GATE PARK—Continued

Deeringia celesioides.	Eucalyptus cosmophylla.	Fagus sylvatica purpurea.
" " variegata.	" engeneoides.	Fatsia japonica.
Desmodium pendula.	" exima.	Ficus paperifera.
Deutzia carescens.	" exserta.	" Carica.
" crenata flora plena.	" fissilis.	" elastica.
" Fortunii.	" florabunda.	" indica.
" gracilis.	" globulus.	" macrophylla.
Diervilla rosea.	" gonilocalix.	Fontanesia phylliræoides.
" " variegata.	" Gunnii.	Forsythia Fortunea.
" rubra.	" hamastoma.	" viridissima.
" speciosa.	" hemiphloia.	Fraxinus americana.
Dioclea glycinoides.	" leptopleba.	" excelsior.
Dioscorea Batatas.	" leucoxyton.	" " aurea
Diosma alba.	" longifolia.	" pendula.
" capitata.	" macrocarpa.	" oregonia.
" ericoides.	" macroshyncha.	" ornus.
" purpurea.	" maculata.	" platycarpa.
" tenuifolia.	" melliodora.	Fremontia californica.
Diospyros virginiana.	" muelleri.	Frenela australis.
Diplopappus chrysophylla.	" negacarpa.	" Muellerii.
Dipsacus Fullonum.	" obliqua.	" rhomboides.
Distylium racemosum.	" occidentalis.	" robusta.
Duranta Plumieri.	" paniciflora.	Gardenia radicans.
Eceremocarpus scaber.	" paniculata.	Garrya elliptica.
Echium argenteum.	" piluderis.	" Fremonti.
" candicans.	" piperita.	Gaultheria Shallon.
" Lindleyana.	" polyanthemos.	Gaylussacia dumosa.
" strictum.	" Pressii.	Geitonoplesium cymosum.
Elacoca cordata.	" Risdonii.	Genista Andreana.
Elæagnus aurea.	" rostrata.	" candicans.
" hortensis.	" saligna.	" linifolium.
" " angustifolia.	" stricta.	" sinensis.
" japonica.	" viminalis.	Gleditschia triacanthus.
Elæocarpus Hookerianus.	" vittata.	Globularia longifolia.
Entelea arborescens.	Eucaplis hayphylloides.	Goodia latifolia.
Enterolobium timbowa.	Eugenia jambosa.	" pubescens.
Erica arborea.	" latifolia.	Grevillea Hertii.
" Gaucermanii.	" myrtifolia.	" robusta.
" hyalina.	Eukimonthus japonica.	Guevina Ayellana.
" hyemalis.	Euonymus argentea.	Gymnocladus canadensis.
" Lewesii.	" japonicus alba.	Hakea aricularis.
" mediterranea.	" " anrea	" latifolia.
" melanthera.	" marginatus.	" leucaptera.
" persoluta alba.	Euonymus japonicus lati-	" modosa.
" purpurea.	folius albus.	" saligna.
Erythrina caffra.	Euonymus japonicus lati-	" ulicina.
" crista-galli.	folius aureus.	" vernocosa.
Escallonia alba.	Euonymus pulchellum.	Hamamelis japonica.
" floribunda.	" radicans.	Harpullea pendula.
" leucantha.	" " variegata.	Hibiscus macrophylla.
" macrantha.	Eupatorium ageratooides.	" nutabilis.
" Philippiana.	" Dishii.	" pungens.
" rosea.	" riparium.	" Reevesii.
" montevidensis.	" speciosum.	" rosea.
Eucalyptus amygdalina.	" Weimannia-	" splendens.
" cineria.	num.	" syriacus.
" citriodora.	Europeus elatus.	Hydrangea hortensis.
" calophylla.	Eurybia australis.	" paniculata
" coccifera.	Exochordia grandiflora.	" grandiflora.
" collosea.	Fabiana imbricata.	Hymenospodium flavum.
" concolor.	Fagus ferruginea.	Hypericum calycinum.
" cordatus.	" incisa.	" canariensis.
" corymbosa.	" sylvatica.	" elatum.



## CATALOGUE OF TREES AND SHRUBS IN GOLDEN GATE PARK—Continued

<i>Hypericum Moserianum.</i>	<i>Kennedya Comptoniana.</i>	<i>Malernia odorata.</i>
“ <i>patulum.</i>	“ <i>macrophylla.</i>	<i>Malvaviscus arboreus.</i>
<i>Ilex aquifolium.</i>	<i>Kerria japonica.</i>	<i>Maytenus Boaria.</i>
“ <i>alba picta.</i>	<i>Kolreuteria paniculata.</i>	“ <i>chilensis.</i>
“ <i>argentea</i>	<i>Laburnum alpinum.</i>	<i>Mechelea compressa.</i>
“ <i>marginata.</i>	“ <i>vulgaris.</i>	<i>Melaleuca armillaris.</i>
<i>Ilex aquifolium aurea picta</i>	<i>Lagerstromia indica.</i>	“ <i>decussata.</i>
“ <i>latifolia.</i>	<i>Lagunaria Pater sonii.</i>	“ <i>genistifolia.</i>
<i>Ilex aquifolium ferox argen-</i>	<i>Lantanium alba.</i>	“ <i>hypericifolia.</i>
“ <i>tea.</i>	<i>Lantana Camara.</i>	“ <i>incana.</i>
<i>Ilex aquifolium fructu luteo.</i>	“ <i>selloviana.</i>	<i>Melaluca leucadendron.</i>
“ <i>Hendersonii.</i>	<i>Larix europea.</i>	<i>Melia Azedarach.</i>
“ <i>cornuta.</i>	“ <i>leptolepsis.</i>	<i>Melanthus major.</i>
“ <i>cuneata.</i>	“ <i>occidentalis.</i>	<i>Menziesia ferruginea.</i>
“ <i>japonica.</i>	<i>Laurus camphora.</i>	<i>Mespilus japonica.</i>
“ <i>latifolia.</i>	“ <i>grandulosa.</i>	<i>Metrosideros robusta.</i>
“ <i>robusta.</i>	“ <i>indica.</i>	“ <i>tomentosa.</i>
<i>Illicium religiosum.</i>	“ <i>nobilis.</i>	<i>Mimulus glutinosus.</i>
<i>Indigofera australis.</i>	<i>Lavatera arborea.</i>	“ <i>puniceus.</i>
“ <i>tinctoria.</i>	“ <i>variegata.</i>	<i>Morus alba</i>
<i>Inga dulcis.</i>	<i>Lavendula spica.</i>	“ <i>japonica.</i>
<i>Iochroma coccinea.</i>	“ <i>stoechas.</i>	“ <i>multicaulus.</i>
“ <i>speciosa.</i>	<i>Leea coccinea.</i>	“ <i>nigra.</i>
“ <i>tubulosa.</i>	<i>Leonotis Leonurus.</i>	“ <i>pendula.</i>
<i>Itea virginica.</i>	<i>Leptospermum ericifolium.</i>	<i>Murraya exotica.</i>
<i>Jacaranda mimosifolia.</i>	“ <i>laevigatum.</i>	<i>Myoporum lactum.</i>
<i>Jasminum alba.</i>	“ <i>myrtifolium.</i>	“ <i>maculata.</i>
“ <i>aurea.</i>	“ <i>scoparium.</i>	<i>Myrica californica.</i>
“ <i>capensis.</i>	<i>Lespedeza bicolor.</i>	“ <i>rubra.</i>
“ <i>fruticosum.</i>	<i>Leucadendron argenteum.</i>	<i>Myrtus communis.</i>
“ <i>nudiflorum.</i>	<i>Leycesteria formosa.</i>	“ <i>latifolia.</i>
“ <i>Sambac.</i>	<i>Liatis pycnostachya.</i>	“ <i>Luma.</i>
<i>Juglans californica.</i>	<i>Libocedrus decurrens.</i>	“ <i>macrophylla.</i>
“ <i>cineria.</i>	<i>Ligustrum californicum.</i>	“ <i>mucronata.</i>
“ <i>cordiformis.</i>	<i>Ligustrum californicum au-</i>	<i>Nandina domestica.</i>
“ <i>nigra.</i>	“ <i>reum.</i>	<i>Negunda acerioides.</i>
“ <i>regia.</i>	<i>Ligustrum lbota.</i>	“ <i>malinifolia.</i>
“ <i>sieboldii.</i>	“ <i>japonicum varie-</i>	<i>Nerium album plenum.</i>
<i>Juniperus argentea.</i>	“ <i>gatum.</i>	“ <i>madonna grandiflora.</i>
“ <i>Bermudiana.</i>	<i>Ligustrum Lucidum.</i>	“ <i>oleander.</i>
“ <i>chinensis.</i>	“ <i>vulgare.</i>	“ <i>splendens.</i>
“ <i>alba var-</i>	<i>Lippia citriodora.</i>	<i>Notelæa longifolia.</i>
“ <i>riegata.</i>	<i>Liquidambar stryaciflua.</i>	<i>Olea europea.</i>
<i>Juniperus chinensis japon-</i>	<i>Liriodendron tulipifera.</i>	“ <i>fragrance.</i>
“ <i>ica.</i>	<i>Lithræa melleoides.</i>	“ <i>picolina.</i>
<i>Juniperus communus.</i>	<i>Lupinus arboreus.</i>	“ <i>sativa.</i>
“ <i>cracovia.</i>	“ <i>Chamissonis.</i>	“ <i>splendens.</i>
“ <i>hibernica.</i>	<i>Lyanothamnus floribundus.</i>	<i>Olearia ilicifolia.</i>
“ <i>suecica.</i>	<i>Lycium parviflorum.</i>	<i>Osmanthus ilicifolia.</i>
“ <i>compacta.</i>	“ <i>Richii.</i>	“ <i>variegata.</i>
“ <i>drupacea.</i>	<i>Macadamia ternifolia.</i>	“ <i>latifolia.</i>
“ <i>occidentalis.</i>	<i>Machetium Tipa.</i>	“ <i>ligustifolia.</i>
“ <i>procumbens.</i>	<i>Maclura aurantiaca.</i>	<i>Otherathyrex hispidium.</i>
“ <i>recurva squamata.</i>	<i>Magnolia acuminata.</i>	<i>Oxylobium Callistachys.</i>
“ <i>rigida.</i>	“ <i>fusca.</i>	<i>Paulownia imperialis.</i>
“ <i>Sabina.</i>	“ <i>grandiflora.</i>	<i>Pavonia hastata.</i>
“ <i>Sphærica.</i>	“ <i>hypoluca.</i>	“ <i>nastalis.</i>
“ <i>virginiana.</i>	“ <i>La Gallisoniere.</i>	<i>Pentstemon heterophyllus.</i>
“ <i>pendula.</i>	“ <i>Mantais.</i>	<i>Persica vulgaris alba plena.</i>
<i>Justicia carnea.</i>	“ <i>oxoniensis.</i>	“ <i>rosea</i>
<i>Kadsura japonica.</i>	“ <i>Precoix du mau.</i>	<i>Persoonia lanceolata.</i>
<i>Kalmia glauca.</i>	“ <i>Sonlangeana.</i>	“ <i>laticifolius.</i>
<i>Kauba polygana.</i>	“ <i>gracilis.</i>	“ <i>linearis.</i>

## CATALOGUE OF TREES AND SHRUBS IN GOLDEN GATE PARK—Continued

<i>Phebalium dentatum.</i>	<i>Pinus radiata.</i>	<i>Punica granatum.</i>
<i>Philadelphus coronarius.</i>	" <i>rubra.</i>	<i>Pyrus atro-purpurea.</i>
" <i>grandiflorus.</i>	" <i>Sabiniana.</i>	" <i>carnea plena.</i>
<i>Phillyrea angustifolia.</i>	" <i>strobilus.</i>	" <i>coronaria odorata.</i>
" <i>ilicifolia.</i>	" <i>sylvestris.</i>	" <i>domestica.</i>
" <i>latifolia.</i>	" <i>Taeda.</i>	" <i>Halliana.</i>
" <i>media.</i>	" <i>tomentosa.</i>	" <i>japonica.</i>
<i>Phlogacanthus thyrsifolius.</i>	" <i>Torreyana.</i>	" <i>Le Conte.</i>
<i>Photinia arbutifolia.</i>	" <i>tuberculata.</i>	" <i>Mallus.</i>
" <i>japonica.</i>	<i>Pistacia vera.</i>	" " <i>baccata.</i>
" <i>serrulata.</i>	<i>Pittosporum Buchananii.</i>	<i>Quercus agrifolia.</i>
<i>Phytolacca arborea.</i>	" <i>crassifolium.</i>	" <i>alba.</i>
<i>Picea alba.</i>	" <i>eriocarpum.</i>	" <i>aquatica.</i>
" <i>Alcoquiana.</i>	" <i>eugeneoides.</i>	" <i>cerris.</i>
" <i>Engelmanni.</i>	" <i>nigra.</i>	" <i>coccinea.</i>
" <i>excelsa.</i>	" <i>rhombofolium.</i>	" <i>crispula.</i>
" " <i>puuila glauca.</i>	" <i>tobira.</i>	" <i>cuspidata.</i>
" <i>jezoensis.</i>	" " <i>variegata.</i>	" <i>densiflora.</i>
" <i>Menziesii.</i>	" <i>undulatum.</i>	" <i>dentata.</i>
" <i>nigra.</i>	<i>Plagianthus Lyaalii.</i>	" <i>Douglasii.</i>
" " <i>Doumetti.</i>	<i>Planera cuspidata.</i>	" <i>Dumasa bullata.</i>
" <i>pungens.</i>	" <i>japonica.</i>	" <i>Humboldtii.</i>
" <i>pygmaea.</i>	<i>Platanus occidentalis.</i>	" <i>Ilex.</i>
" <i>pyramidalis.</i>	" <i>orientalis.</i>	" <i>lobata.</i>
" <i>Smithiana.</i>	" " <i>variegata.</i>	" <i>macrocarpa.</i>
<i>Pyrus japonica.</i>	" <i>racemosus.</i>	" <i>montana.</i>
" " <i>variegata.</i>	<i>Pleroma macrantha.</i>	" <i>oliveformis.</i>
<i>Pimelia australis.</i>	<i>Plumeria Lambertiana.</i>	" <i>palmyra.</i>
" <i>rosea.</i>	<i>Podalyra argentea.</i>	" <i>palustris.</i>
<i>Pinus albicaulis.</i>	<i>Podocarpus austriaca.</i>	" <i>Phellos.</i>
" <i>austriaca.</i>	<i>Poinciana Gillesii.</i>	" <i>pinnatifolia.</i>
" <i>Banksiana.</i>	" <i>pulcherrima.</i>	" <i>Prinus.</i>
" <i>canariensis.</i>	<i>Polygala alternata.</i>	" <i>Robur.</i>
" <i>cembra.</i>	" <i>Dalmaisia.</i>	" " <i>serrata.</i>
" <i>contorta.</i>	" <i>grandiflora.</i>	" <i>rubra.</i>
" <i>Coulterii.</i>	" <i>virgata speciosa.</i>	" <i>sempervirens.</i>
" <i>densiflora.</i>	<i>Pomaderris apetela.</i>	" <i>serrata.</i>
" <i>excelsa.</i>	" <i>asper.</i>	" <i>sessiliflora.</i>
" <i>Fremontiana.</i>	" <i>servignea.</i>	" <i>stillengia.</i>
<i>Pinus halepensis.</i>	<i>Populus argentea.</i>	" <i>suberosa.</i>
" <i>Hamiltonii.</i>	" <i>balsamifera.</i>	" <i>tinctoria.</i>
" <i>inops.</i>	" <i>fastigiata.</i>	<i>Rhamnus alpinus.</i>
" <i>insignis.</i>	" <i>nigra.</i>	" <i>californicus.</i>
" <i>Jeffreyana.</i>	<i>Pronaya Fabura.</i>	" <i>catharticus.</i>
" <i>Lambertiana.</i>	<i>Prostanthera lasianthus.</i>	" <i>Coulterii.</i>
" <i>Laricio.</i>	" <i>nivea.</i>	" <i>Frangula.</i>
" " <i>calabrica.</i>	" <i>Sibercii.</i>	" <i>infectorius.</i>
" <i>longifolia.</i>	" <i>suberosa.</i>	" <i>integrifolius.</i>
" <i>Massoniana.</i>	<i>Prunus californica.</i>	" <i>pulchella.</i>
" <i>mitis.</i>	" <i>Cerasus.</i>	" <i>purshiana.</i>
" <i>monophylla.</i>	" <i>myrobalanus.</i>	<i>Raphiolepis indica.</i>
" <i>Montezuma.</i>	" <i>Padus.</i>	<i>Rhododendron Albicans.</i>
" <i>monticola.</i>	" <i>Pissardii.</i>	" <i>Andersonii.</i>
" <i>Mughus.</i>	" <i>spinosa.</i>	" <i>arboreum.</i>
" <i>muricata.</i>	" <i>tomentosum.</i>	" <i>argenteum.</i>
" <i>Murrayana.</i>	" <i>triloba.</i>	" <i>aruginosum.</i>
" <i>Parryana.</i>	<i>Pseudotsuga Douglasii.</i>	" <i>Athens.</i>
" <i>parviflora.</i>	" <i>Taxifolia.</i>	" <i>aurora.</i>
" <i>pinea.</i>	<i>Psidium Cattleianum.</i>	" <i>barbatum.</i>
" <i>pinaster.</i>	<i>Psoralea glandulosa.</i>	<i>Rhododendron blandfordiae-</i>
" <i>ponderosa.</i>	" <i>pinnata.</i>	<i>florum.</i>
" <i>pontosa.</i>	<i>Ptelea trifoliata.</i>	

## CATALOGUE OF TREES AND SHRUBS IN GOLDEN GATE PARK—Continued

Rhododendron californicum.	Romneya Coulterii.	Sterculia pentagyna
Rhododendron calophyllum.	Rubus fruticosus.	“ platanifolia.
Rhododendron catawbiense.	“ occidentalis.	Stevia serrata.
Rhododendron Corajia.	“ roseifolius.	Streptosolen Jamesonii.
“ Dalhousiæ.	Ruscus aculeatus.	Stuartia pentagyna.
Rhododendron Duchess of Connaught.	Salisburia adiantifolia.	“ pseudo camellia.
Rhododendron Duchess of Edinburgh.	Salix alba.	Styphelia pinnata.
Rhododendron Duchess of Teck.	“ babylonica.	Styrax africana.
Rhododendron emblem.	Salix caprea variegata pendula.	“ Obassia.
“ Falconeri.	Salix fragilis.	“ Stantonii.
“ fulgens.	“ nigra.	Swainsona galegifolia.
“ grenadier.	“ purpurea.	Swainsona galegifolia albi-flora.
“ Habbanum	“ rosmarinifolia.	Syncarpia laurifolia.
“ bicolor.	“ tricolor.	Syringa Bertha Darwiniana.
“ glaucum.	“ Vitellina.	Syringa Countess of Paris.
“ Heimilicum.	Sambucus nigra.	“ Fleur d'Orange.
“ Hodgsoni.	“ aurea.	“ gigantea.
“ Jenkinsii.	“ racemosa.	“ japonica.
“ Jennessonii.	“ purpurea.	“ Lemoine flore pleno.
“ maximum.	Schinus Molle.	Syringa Michael Buchner.
“ nigrum.	“ terebinthifolius.	“ persica.
“ nilagericum.	Schismus excelsa.	“ Ranuncus.
“ nobleanum.	Schotia latifolia.	“ Rubella plena.
“ occidentalis	“ tamarindifolia.	“ rubra insignis.
“ ponticum.	Sciadopitys verticillata.	“ vulgaris.
Rhododendron Princess Alexander.	Scmele androgyna.	Tamarix gallica.
Rhododendron Queen of Dwarfs.	Sequoia gigantea.	Taricopus spectabilis.
Rhododendron Rosaline.	“ sempervirens.	Taxodium distichum.
“ Sabiana.	Serissa japonica.	Taxus baccata.
“ Thibaudiense.	Sida pulchella.	“ “ adpressa.
“ Thomsonii.	Solandra grandiflora.	“ “ argentea.
“ Wightii.	Solanum capsicastrum.	Taxus baccata cheshuntensis.
“ Zealandicum.	“ crenulatum.	Taxus baccata erecta.
Rhodocistus Berthelotianus.	“ hæmitacarpum.	“ “ fastigiata.
Rhus copallina.	“ laciniatum.	Taxus baccata elegantissima aurea.
“ Coriaria.	“ lanceolatum.	Taxus baccata brevifolia
“ Cotinus.	“ macrocarpum.	“ canadensis.
“ diversiloba.	“ robustum.	“ cuspidata.
“ glabra.	“ Wedlandia.	“ Washingtonii.
“ “ laciniata.	“ heterophylla.	Templetonia retusa.
“ Toxicodendron.	Sophora japonica.	Teucrium fruticans.
Ribes alpinum.	“ pendula.	Thea viridis.
“ capensis.	“ microphylla.	Thuya filiformis.
“ Grossularia.	“ tetraptera.	“ gigantea.
“ sanguineum.	Southerlandia frutescens.	“ “ variegata.
Robinia hispida.	Spartinum junceum.	“ occidentalis.
“ pseudacacia.	Sphæralcea Caroliniana.	“ orientalis.
“ Bessoniana.	Spiræa ariefolia.	“ “ pendula.
“ Decaisneana.	“ Aruncus.	“ Sieboldii.
“ Fastigiata.	“ Billardi.	“ tartarica.
“ inermis.	“ japonica.	Thuyopsis dolobrata.
“ nigra.	“ Nobleana.	Thuyopsis dolobrata variegata.
Rochea falcata.	“ opulifolia.	Tilia alba pendula.
Rosemarinus officinalis.	“ palmate.	“ americana.
	“ plumosa.	“ argentea.
	“ prunifolia flora plena.	“ aurea.
	Spiræa Reevesiana.	“ dasystyla.
	“ Thunbergii.	
	Stauntonia hexaphylla.	
	Sterculia acerifolia.	
	“ diversifolia.	

## CATALOGUE OF TREES AND SHRUBS IN GOLDEN GATE PARK—Continued

<i>Tilia filicifolia</i> .	<i>Ulmus fulva</i> .	<i>Veronica elliptica</i> .
" <i>platyphyllas</i> .	" <i>Huntingdonii</i> .	" <i>imperialis</i> .
" " <i>aurantia</i> .	" <i>Incana</i> .	" <i>pauicnata</i> .
" <i>rubra</i> .	" <i>montana</i> .	" <i>parviflora</i> .
" <i>vulgaris</i> .	" " <i>pendula</i> .	" " <i>alba</i> .
<i>Torreya californica</i> .	" <i>oxoniense</i> .	" <i>salicifolia</i> .
" <i>nucifera</i> .	" " <i>purpurea</i> .	<i>Viburnum lucidum</i> .
<i>Toxicophleka spectabilis</i> .	" <i>rugosa</i> .	" <i>Opulus</i> .
<i>Trifolium suaveolens</i> .	" <i>suberosa</i> .	" <i>Tinus</i> .
<i>Tristania conferta</i> .	" <i>Wheatleyii</i> .	" " <i>grandiflora</i> .
<i>Tsuga Hookeriana</i> .	<i>Umbellularia californica</i> .	<i>Virgilia capensis</i> .
" <i>Mertensiana</i> .	<i>Viccinum macrocarpum</i> .	" <i>lutea</i> .
" <i>Pattoniana</i> .	<i>Veronica Andersonii</i> .	<i>Vitex Agnus castus</i> .
<i>Ulex europæus</i> .	" " <i>variegata</i> .	<i>Widdringtonia Whytei</i> .
<i>Ulmus americana</i> .	" <i>arborea</i> .	" " <i>cupressoides</i> .
" " <i>variegata</i> .	" <i>buxifolia</i> .	<i>Xanthoceras sorbifolia</i> .
" <i>campestris</i> .	" <i>carnea</i> .	<i>Xeranthemum annuum</i> .
" " <i>cucullata</i> .	" <i>carnosula</i> .	<i>Xylomelum pyriforme</i> .
" <i>Clemeri</i> .	" <i>cerulea</i> .	<i>Zanthoxylon piperitum</i> .
" <i>Dovæi</i> .	" <i>decussata</i> .	" <i>spinifex</i> .
	" <i>decumbens</i> .	

## ALOEES, PALMS, AND GRASSES IN THE PARK.

<i>Agave Shawii</i> .	<i>Chamærops glauca</i> .	<i>Phormium tenax</i> .
" <i>Americana</i> .	" <i>Portunii</i> .	" " <i>variegatum</i> .
" " <i>variegata</i> .	<i>Corypha australis</i> .	<i>Phoenix</i> .
" <i>angustifolia</i> .	<i>Cocos australis</i> .	" <i>canariensis</i> .
" <i>dealbata</i> .	" <i>nucifera</i> .	" <i>dactylifera</i> .
" <i>densifolia</i> .	<i>Cordyline australis</i> .	" <i>reclinata</i> .
" <i>ferox</i> .	" <i>Indivisa</i> .	" <i>rupicola</i> .
" <i>lophantha</i> .	" <i>stricta</i> .	" <i>sylvestris</i> .
" <i>Salmaniana</i> .	<i>Doryanthes Palmeri</i> .	" <i>tenuis</i> .
" <i>Stenophylla</i> .	<i>Dracæna Draco</i> .	<i>Pritchardia</i> .
" <i>vivipara</i> .	<i>Dasyllirion gracile</i> .	" <i>filifera</i> .
<i>Arundo Stricta</i> .	" <i>Hookeri</i> .	" <i>Martii</i> .
" <i>Donax</i> .	<i>Elymus glauca</i> .	" <i>pacifica</i> .
" " <i>versicolor</i> .	" <i>condensatus</i> .	" <i>Sonorea</i> .
<i>Arundinaria falcata</i> .	<i>Eulalia japonica</i> .	<i>Sabal Blackburniana</i> .
" <i>metake</i> .	" " <i>zebrina</i> .	" <i>Palmetto</i> .
<i>Avena Elatum</i> .	<i>Erythea</i> .	<i>Stipa</i> .
<i>Barbusa</i> .	" <i>edulis</i> .	" <i>pennata</i> .
" <i>arundinacea</i> .	" <i>arnata</i> .	" <i>tenacissima</i> .
" <i>aurea</i> .	<i>Festuca glauca</i> .	<i>Typha latifolia</i> .
" <i>Striata</i> .	<i>Furcraea gigantea</i> .	<i>Yucca</i> .
" <i>Fortunei</i> .	<i>Gynierium argenteum</i> .	" <i>aloifolia</i> .
" <i>nigra</i> .	<i>Isolepsis gracilis</i> .	" <i>baccata</i> .
<i>Brahea</i> .	<i>Latania borbonica</i> .	" " <i>variegata</i> .
" <i>Edulis</i> .	<i>Musa ensete</i> .	" " <i>quadricolor</i> .
" <i>filamentosa</i> .	<i>Nolina palmerii</i> .	" <i>bracteata</i> .
" <i>manii</i> .	<i>Opuntia Tuna</i> .	" <i>filamentosa</i> .
" <i>Sonorea</i> .	<i>Phalaris</i> .	" <i>gloriosa</i> .
<i>Chamærops excelsa</i> .	" <i>canariensis</i> .	" " <i>pendula</i> .
" <i>humilis</i> .	" <i>arundinacea</i> .	" <i>Whipplei</i> .
" <i>Martiniana</i> .	<i>Phyllostachys nigra</i> .	
" <i>Nepalensis</i> .	<i>Phormium</i> .	

## FLOWERING AND BEDDING PLANTS IN NURSERY.

Agathæa cœlestis.....	50	Fuchsia Phenomenal.....	5
Agrostemma coronaria.....	200	“ Buffon.....	3
Aquilegia flore plena.....	125	“ procumbens.....	56
“ chrysantha.....	800	Gaillardia Lorenziana.....	1,100
Anchusa capensis.....	9	Geraniums.....	1,500
Asters chinensis.....	800	“ Ivy.....	500
Begonia Weltoniensis.....	250	Gnaphalium lunatum.....	600
“ semperflorens Vernon.....	700	Heliotropum peruvianum.....	300
“ Erfordia.....	30	Helianthus multiflorus.....	100
“ rubra.....	30	Hydrangea Hortensis.....	200
“ incarnata metallica.....	3	Leucophyton Brownii.....	300
“ floribunda rosea.....	25	Lobelia cardinalis.....	300
“ Rex.....	5	“ Prima Donna.....	400
“ semperflorens alba.....	2	“ Lychnis.....	20
Campanula pyramidalis.....	2,000	Mesembryanthemum crystalum.....	30
Coreopsis lanceolata.....	50	Mesembryanthemum cordifolium.....	600
Calceolaria rugosa.....	14	“ variegatum.....	30
Carnations.....	500	Mimulus coccinea.....	50
Centaurea imperialis.....	7	Nicotiana affinis.....	18
Chrysanthemum sinense.....	500	Onopordum Acantheum.....	120
“ frutescens.....	1,000	Petunia Giants of California.....	180
Cheiranthus Cheiri.....	2,550	Pelargoniums.....	9
Clarkia rhomboidoa.....	45	Pentstemon heterophylla.....	3,000
Cotyledon secunda glauca.....	100	Pentstemon barbatus.....	384
Cuphea miniata.....	51	Phlox Drummondii cuspidata.....	88
Delphinium galii.....	6	Polyanthus auricula.....	250
“ Ajacis.....	500	“ Iresine Collensii.....	300
Dianthus barbatus.....	600	“ Lindenii.....	150
Digitalis gloxinoides.....	300	“ Verschaffeltii.....	3
Fuchsia globosa.....	9	Rhodea japonica.....	50
Fuchsia Jupiter.....	12	Salvia Pinappilis.....	24
“ Katie Hayes.....	40	“ globosa.....	6
“ Mme. Thebaut.....	22	“ Pattoni.....	11
“ Pearl of England.....	16	“ fulgens.....	325
“ Rose of Castile.....	34	“ splendens.....	25
“ Storm King.....	17	Saxifraga umbrosa.....	54
“ Mme. Short.....	7	“ kantschaticum.....	4
“ Geraldine.....	7	Streptosolen Jamesonii.....	110
“ crinalina.....	6	Strobilanthes Dyariana.....	10
“ Arabella.....	10	Trifolium suaveolens.....	12
“ Avalanche.....	17	Verbena hybrida.....	413
“ Matthias Duval.....	15	Viola imperialis.....	84
“ Thiebault Glockner.....	16	Wigandia caracasana.....	75
“ Lady Furnis.....	12		

## ALOE, PALMS AND GRASSES, ETC., IN PARK NURSERY.

Areca sapida.....	7	Erythea edulis.....	3
“ monostachya.....	15	“ armata.....	2
Chamærops humilis.....	5	Latania borbonica.....	300
“ Nepalensis.....	1	Phoenix reclinata.....	25
“ excelsa.....	200	“ canariensis.....	1
Cocos australis.....	2	“ rupicola.....	15
“ plumosa.....	12	“ tenuis.....	48
Cordylina australis.....	150	“ humilis.....	50
“ indivisa.....	170	Pritchardia pacifica.....	3
Dracæna Draco.....	1	“ filifera.....	3
“ Fortunii.....	5		

## PALMS.

Raphis flabelliformis.....	5	Sabal Blackburniana.....	1
Sabal Palmetta.....	175	“ umbraculifera.....	12
“ Adamsonii.....	3	Seaforthia elegans.....	55

## GRASSES.

Arundinaria falcata .....	20	Stipa pennata .....	21
" Hindsii graminea var..	1	Bambusa Hanchikii .....	1
Arundo donax versicolor .....	41	" Shako Hanchikii .....	1
Agrotis nebulosa .....	72	" marmorea Kanchikii .....	1
Briza maxima .....	51	" Taiho .....	1
Cyperis alternifolius .....	7	" henonis .....	1
Coix lachryma .....	10	" striata .....	1
Eragrostis elegans .....	22	Phyllostachys bambusoides .....	1
Erianthus Ravennae .....	25	" nigra .....	1
Hordeum jubatum .....	41	" variegata .....	1
Phormium tenax .....	64	" queilæ .....	1
" variegatum .....	50	" mitis .....	1

## FERNS.

Adiantum assimile .....	50	Furcraea pubescens .....	3
Asplenium Nidus .....	3	Yucca aloifolia rubra .....	120
Cyathea dealbata .....	2	" variegata .....	2
Dicksonia antarctica .....	1	" baccata .....	15
Agave americana variegata .....	25	" Wheelerii .....	120
" .....	10	" Whipplei .....	30
Aloe ciliaris .....	2	" gloriosa pendula .....	18
Cactus .....	230		

## WATER LILIES, LILIES, BULBS, ETC.

Crinum amabile .....	5	Nymphia Marliæa .....	10
Heimerocallis flava .....	20	" rosea .....	20
Iris Kæmpferi .....	500	" chromatella .....	10
" bracteata .....	6	" flava .....	10
Tigridia grandiflora .....	100	" odorata .....	20
Darlingtonia californica .....	10	" rosea .....	10

## VINES, CLIMBERS, ETC., IN THE NURSERY.

Akebia quinata .....	25	Passiflora gracilis .....	7
Ampelopsis quinquefolia .....	245	Phaseolus multiflorus .....	24
" Veitchii .....	25	" Caracalla .....	77
Aristolochia clitoria .....	18	Tacsonia rosea .....	115
Asparagus tenuissimus .....	40	Trachelospermum jasminoides .....	8
Bignonia australis .....	4	" variegata .....	8
Bougainvillea glabra .....	10	Tecoma Parkinsoniana .....	5
Clematis Jackmanii .....	3	" jasminoides .....	18
Cobæa scandens .....	10	" radicans .....	11
Dolichos Lablab .....	200	Vitis cordifolia .....	7
Ficus repens .....	5	" rupestris .....	10
Jasminum capensis .....	50	" Amazonica .....	5
Lathyrus sylvestris .....	40	" riparia .....	10
Lonicera flexuosa aurea reticulata ..	250	" Bourgiiana .....	3
" grandiflora .....	50	" Linneomia .....	9
" Periclymenum .....	100	" californica .....	2
Mandevilla suaveolens .....	280	" Solonis .....	5
Mina lobata .....	6	Wistaria chinensis .....	2
Muehlenbeckia complexa .....	200	" frutescens .....	200

## TREES AND SHRUBS IN PARK NURSERY.

Abies magnifica .....	500	Abies Concolor .....	300
" amabilis .....	1,050	" Nordmanniana .....	9
" nobilis .....	330	" Firma .....	12
" Tauriana .....	1,350	" Veitchii .....	15
" bracteata .....	3	" brachyphylla .....	100
" lasiocarpa .....	170	" Douglassii glauca pendula ..	1

## TREES AND SHRUBS IN PARK NURSERY—Continued

<i>Abies grandis</i> .....	1,000	<i>Ceanothus integerrimus</i> .....	24
<i>Abutilon</i> .....	205	“ <i>Marie Simon</i> .....	1
<i>Abelia rupestris</i> .....	61	“ <i>thrysaeflorus</i> .....	102
<i>Acacia Farnesiana</i> .....	1	<i>Cedrus Deodara</i> .....	15
“ <i>decurrens</i> .....	85	“ <i>Libani</i> .....	8
“ <i>latifolia</i> .....	156	<i>Celtis cordata</i> .....	50
“ <i>floribunda</i> .....	99	<i>Cercis siliquastrum</i> .....	7
“ <i>melanoxylon</i> .....	115	<i>Cerassus japonica</i> .....	14
“ <i>lophantha</i> .....	50	<i>Cestrum elegans</i> .....	105
“ <i>armata</i> .....	88	<i>Choisya ternata</i> .....	100
“ <i>mollissima</i> .....	8	<i>Chamæcyparis decussata</i> .....	60
“ <i>coccinea</i> .....	2	“ <i>Lawsoniana</i> .....	1,600
<i>Acalypha macrophylla</i> .....	224	<i>Chamæcyparis Lawsoniana alba</i>	
<i>Acer platanoides</i> .....	12	“ <i>spica variegata</i> .....	1
“ “ <i>purpurea</i> .....	2	<i>Chamæcyparis Lawsoniana Alumi</i>	1
“ <i>saccharinum</i> .....	5	“ “ <i>argentea</i> ..	1
“ <i>pseudo aurea variegata</i> .....	4	<i>Chamæcyparis Lawsoniana ar-</i>	
“ “ <i>corstorphine</i> .....	2	“ <i>genteo variegata</i> .....	1
“ “ <i>Leopoldii</i> .....	1	<i>Chamæcyparis Lawsoniana aurea</i> ..	1
“ <i>dasyarpum</i> .....	10	“ “ <i>compacta</i> ..	1
“ <i>Woolerii</i> .....	2	“ “ <i>eracta glauca</i>	1
“ <i>macrophylla</i> .....	50	“ “ “ <i>viridis</i> ..	1
<i>Æsculus glabra</i> .....	2	“ “ “ <i>Fraserii</i>	1
“ <i>flava</i> .....	7	“ “ <i>glauca</i> .....	1
“ <i>Californicus</i> .....	15	“ “ <i>lutea</i> .....	1
<i>Ailanthus glandulosa</i> .....	2	<i>Chamæcyparis Lawsoniana pyra-</i>	
<i>Albizia Julibrissin</i> .....	15	“ <i>midalis alba</i> .....	1
<i>Artemisia glauca</i> .....	300	<i>Chamæcyparis Nutkaensis</i> .....	3
<i>Araucaria Bidwellii</i> .....	26	<i>Chamæcyparis obtusa gracilis aurea</i>	2
“ <i>excelsa</i> .....	1	“ “ <i>plumosa</i> ..	87
“ <i>imbricata</i> .....	475	<i>Cistus albidus</i> .....	150
<i>Arctostaphylos pungens</i> .....	2	<i>Cistus landaniferus</i> .....	25
<i>Astragalus, bertiagens</i> .....	25	“ <i>rosea</i> .....	100
<i>Acuba japonica</i> .....	60	“ <i>salvifolius</i> .....	25
“ <i>viridis latifolia</i> .....	5	<i>Citrus trifoliata</i> .....	245
<i>Azalea occidentalis</i> .....	25	<i>Cinnamomum sericeum</i> .....	5
<i>Benthamia fragifera</i> .....	35	<i>Clerodendron speciosum</i> .....	2
<i>Berberis Darwinii</i> .....	40	<i>Clianthus puniceus</i> .....	85
“ <i>vulgaris</i> .....	223	<i>Coccoloba platyclada</i> .....	40
“ “ <i>purpurea</i> .....	9	<i>Colletia ferox</i> .....	100
<i>Beaucarnea glauca</i> .....	1	<i>Colquhonia vistata</i> .....	40
<i>Betula occidentalis</i> .....	11	<i>Coprosma Baueriana</i> .....	26
<i>Boldoa fragrance</i> .....	2	“ “ <i>variegata</i> .....	60
<i>Brachychiton populus</i> .....	3	“ <i>robusta</i> .....	10
“ <i>diversifolia</i> .....	2	<i>Cornus mascula</i> .....	5
<i>Burloria spinosa</i> .....	2	“ <i>Siberica Var.</i> .....	1
<i>Buxus argentea variegata</i> .....	300	<i>Coronilla glauca Var</i> .....	220
“ <i>rotundifolium</i> .....	200	<i>Corynocarpus lævigatus</i> .....	20
“ <i>salicifolia</i> .....	300	<i>Cotoneaster buxifolia</i> .....	120
“ <i>sempervirens</i> .....	200	<i>Crataegus azarolus</i> .....	2
“ “ <i>aurea</i> .....	175	“ <i>Carrierii</i> .....	1
“ <i>japonica</i> “ .....	1	“ <i>Douglasii</i> .....	10
<i>Buddleia globosa</i> .....	30	“ <i>Oxyacanthus</i> .....	17
“ <i>Madagascariensis</i> .....	17	“ <i>Oxyacanthafolia variegata</i>	2
<i>Calluna vulgaris</i> .....	40	“ <i>Oxyacanthus flora plena alba</i>	2
<i>Callendinia californica</i> .....	2	“ “ <i>coccinea</i> ..	2
<i>Cassia floribunda</i> .....	500	“ “ “ <i>flora plena</i>	2
<i>Catalpa Kæmpferi</i> .....	9	<i>Cryptomeria Araucarioides</i> .....	8
“ <i>speciosa</i> .....	1	“ “ <i>elegans</i> .....	60
<i>Calycanthus floridus</i> .....	160	<i>Cupressus macrocarpa</i> .....	2,000
<i>Casuarina quadrivalvis</i> .....	100	“ <i>Drummondii</i> .....	2
<i>Cassia floribunda</i> .....	500	“ <i>Goveniana</i> .....	50
<i>Ceanothus Bijou</i> .....	1	<i>Cytisus albus</i> .....	150
“ <i>incanus</i> .....	10	“ <i>bullatus</i> .....	65

## TREES AND SHRUBS IN PARK NURSERY—Continued

<i>Cytisus candicans</i> .....	50	<i>Recinifera</i> .....	1
“ <i>glaharata</i> .....	110	“ <i>robusta</i> .....	30
“ <i>hirsutus</i> .....	110	“ <i>siderophloia</i> .....	22
“ <i>linafolius</i> .....	120	“ <i>tereticormus</i> .....	2
“ <i>purpureus</i> .....	70	“ <i>virgata</i> .....	10
“ <i>scoparius</i> .....	800	<i>Fabiana imbricata</i> .....	5
“ <i>sessilifolius</i> .....	75	<i>Fagus europæus</i> .....	2
“ <i>spinousus</i> .....	70	“ <i>tricolor</i> .....	2
“ <i>quercifolius</i> .....	220	<i>Ficus macrophylla</i> .....	100
<i>Dammara robusta</i> .....	4	<i>Fraxinus acuminata</i> .....	3
<i>Daphne indica variegata</i> .....	8	“ <i>acubafolia</i> .....	2
<i>Daphniphyllum macrophyllum</i> .....	5	“ <i>aurea</i> .....	2
<i>Datura suaveolens</i> .....	7	“ <i>integrifolius laciniatus</i> .....	2
<i>Deeringia celestoides</i> .....	5	“ <i>Salicifolius</i> .....	2
“ <i>variegata</i> .....	4	“ <i>ornus</i> .....	2
<i>Deutzia crenata</i> .....	100	<i>Garrya elliptica</i> .....	2
“ <i>gracilis</i> .....	55	<i>Gardenia florida</i> .....	50
“ <i>Pride of Rochester</i> .....	2	<i>Genista Andreana</i> .....	2
“ <i>Waltererii</i> .....	55	“ <i>racemosa</i> .....	2
<i>Diervilla abel Carriere</i> .....	2	“ <i>tinctoria</i> .....	50
“ <i>alba</i> .....	100	<i>Gleditschia triacanthos</i> .....	2
“ <i>aurea var.</i> .....	1	<i>Grevillea robusta</i> .....	140
“ <i>amabilis alba</i> .....	1	<i>Heimea grandiflora</i> .....	40
“ <i>candida</i> .....	2	<i>Hypericum canariensis</i> .....	50
“ <i>Eva Rathke</i> .....	2	“ <i>calycinum</i> .....	50
“ <i>rosea</i> .....	100	“ <i>Moserianum</i> .....	90
<i>Diplopappus chrysophylla</i> .....	175	<i>Ilex argentea marginata</i> .....	5
<i>Duranta Plumieri</i> .....	30	“ <i>aquifolia</i> .....	50
<i>Echium argenteum</i> .....	100	“ <i>aurea flammula</i> .....	12
<i>Electria excelsa</i> .....	3	<i>Indigofera australis</i> .....	15
<i>Eleagnus edulis</i> .....	10	<i>Lochroma coccinea</i> .....	100
“ <i>japonica</i> .....	5	“ <i>tubulosa</i> .....	200
“ <i>longipes</i> .....	10	<i>Jacaranda minosifolia</i> .....	1
<i>Entelea arborescens</i> .....	25	<i>Jasminum fruticosum</i> .....	94
<i>Epacris hybrida</i> .....	3	<i>Juglans cordiformis</i> .....	5
“ <i>Gauermanii</i> .....	6	“ <i>nigra</i> .....	90
“ <i>mediterranea</i> .....	200	“ <i>Sieboldii</i> .....	24
“ <i>Lewesii</i> .....	4	<i>Juniperus chinensis</i> .....	200
“ <i>persoluta alba</i> .....	12	“ <i>aurea</i> .....	2
“ <i>purpurea</i> .....	80	“ <i>canadensis</i> .....	2
<i>Escallonia floribundia</i> .....	120	“ <i>procumbens</i> .....	200
“ <i>rosea</i> .....	100	“ <i>variegata</i> .....	100
“ <i>rubra</i> .....	140	“ <i>virginiana</i> .....	126
<i>Eugenia myrtifolia</i> .....	40	“ <i>glauca</i> .....	1
<i>Euonymus Duc D'Anjou</i> .....	5	<i>Kerria japonica</i> .....	115
“ <i>japonicus</i> .....	120	<i>Kolreuteria paniculata</i> .....	79
“ <i>pulchellum</i> .....	220	<i>Laburnum alpinum</i> .....	20
“ <i>radicans</i> .....	40	“ <i>aurea</i> .....	2
<i>Eupatorium Dishii</i> .....	15	“ <i>purpurea</i> .....	2
“ <i>pinnatum</i> .....	15	“ <i>quercifolia</i> .....	2
<i>Eurybia australis</i> .....	7	<i>Lagerstronia indica</i> .....	8
<i>Eucalyptus acuminoides</i> .....	1	<i>Lagunaria Patersonii</i> .....	25
“ <i>capitillata</i> .....	10	<i>Larix occidentalis</i> .....	5
“ <i>amygdalina</i> .....	30	“ <i>leptolepis</i> .....	200
“ <i>corymbosa</i> .....	22	<i>Leptospermum ericifolium</i> .....	15
“ <i>filicifolia</i> .....	5	<i>Leptospermum levigatum</i> .....	900
“ <i>goniocalix</i> .....	10	<i>Leucadendron argenteum</i> .....	3
“ <i>hemiphloia</i> .....	25	<i>Libocedrus decurrens</i> .....	462
“ <i>leucocoxylon</i> .....	35	<i>Lippia citriodora</i> .....	25
“ <i>marginata</i> .....	6	<i>Lonicera Chamecerasus</i> .....	106
“ <i>melliodora</i> .....	25	<i>Maclura aurantiaca</i> .....	12
“ <i>pilularia variegata</i> .....	1	<i>Magnolia grandiflora</i> .....	265
“ <i>redunca</i> .....	18	“ <i>purpurea</i> .....	2



## TREES AND SHRUBS IN PARK NURSERY—Continued

Malvaviscus arboreus .....	54	Pinus monticola .....	30
Maytenus chilensis .....	100	"  monophylla .....	25
Melianthus major .....	10	Punica granata .....	6
Mespilus japonica .....	1	Pyrus Aria hybrida .....	2
Metrosideros robusta .....	20	"  "  monstrosa .....	2
Morus alba .....	17	"  "  quercifolia .....	2
Musa ensete .....	30	"  "  acuparia .....	2
Myrtus communis .....	22	Quercus austriaca .....	2
"  Luma .....	75	"  aquatica .....	6
"  micropyllus .....	155	"  coccinea .....	2
Nandina domestica .....	5	"  concordi aurea .....	1
Negunda aceroides .....	25	"  Douglasii .....	40
Nerium oleander .....	5	"  Garryana .....	15
Pinus muricata .....	40	"  ilicifolia .....	50
"  Murrayana .....	200	"  lobata .....	300
"  Parrayana .....	10	"  macrocarpa .....	100
"  pinea .....	45	"  palustris .....	6
"  ponderosa .....	450	"  robur .....	23
"  Sabiniana .....	61	"  sessiliflora .....	350
"  Torreyana .....	450	"  solapsis .....	5
"  tuberculata .....	480	"  suberosa .....	220
Pittosporum crassifolium .....	75	Raphiolepis indica .....	150
"  eugeneoides .....	25	Rhamnus alpinus .....	4
Pleroma macrantha .....	30	"  catharticus .....	5
Plagianthus Ljallii .....	15	"  purshiana .....	15
Plumbago capensis .....	100	Rhus glabra .....	40
Podocarpus spinulosa .....	14	Robinia fastigiata .....	9
Polygala Dalmaisiana .....	105	Roses .....	850
Pomaderris servigneana .....	5	Rosemarinus officinalis .....	75
"  apetela .....	39	Ruscus aculeatus .....	100
Populus argentea .....	3	Salisburia adiantifolia .....	5
"  fastigiata .....	4	Sambucus nigra .....	200
Prunus californica .....	47	"  aurea .....	10
"  Demessa .....	6	Schinus terebinthifolius .....	
"  Pissardii .....	2	Sciadopitys verticillata .....	12
Pseudotsuga Douglasii glauca		Salonum robustum .....	45
pendula .....	1	Sequoia gigantea .....	120
Pseudotsuga taxifolia .....	400	Sophora japonica .....	20
Ptelia trifoliata .....	8	Spartium junceum .....	790
Phebalium dentatum .....	9	Spirea Watererii .....	2
Phytolacca arborea .....	15	Strobilanthes Dyarianus .....	10
Picea alba .....	15	Swainsona galegifolia .....	122
"  Alcoquiana .....	12	"  "  alba .....	12
"  Columbiana .....	50	Syringa vulgaris .....	10
"  concolor violacea .....	1	Taxas baccata .....	24
"  Engelmanii .....	230	"  "  adpressa .....	4
"  excelsa lutea .....	1	"  "  Devonstonia .....	2
"  lassiocarpa .....	1	"  "  elegantissima pen-	
"  Menziesii .....	2 000	dula .....	1
"  polita .....	150	Taxus baccata elegantissima aurea	4
"  pungens .....	1,000	"  "  fastigiata .....	30
"  Sitchensis .....	840	"  "  "  aurea .....	1
"  subalpina .....	116	"  "  cuspidata .....	6
Pimelia rosea .....	40	Thuja Craigiana .....	2
Pinus albicaulis .....	10	"  filiformis .....	2
"  contorta .....	300	"  gigantea .....	200
"  Coulteri .....	50	"  "  aurea .....	10
"  excelsa .....	3	"  Hoveyii .....	1
"  halepensis .....	40	"  occidentalis .....	8
"  Koraiensis .....	14	Thujopsis dolabrata .....	193
"  Lambertiana .....	50	Tilia filicifolia .....	1
"  longifolia .....	3	Torreya californica .....	20
"  mitis .....	40	Tsuga Mertensiana .....	600

## TREES AND SHRUBS IN PARK NURSERY—Continued

Tsuga Pattoniana.....	12	Veronica arborea.....	43
Ulex europæus.....	45	"    decumbens.....	1,500
Ulmus argentea .....	2	"    elliptica .....	322
"    campestris aurea.....	2	"    imperialis .....	200
"    purpurea.....	2	"    parviflora.....	170
"    pyramidalis.....	4	Vitex Agnus castus.....	3
"    "    aurea.....	2	Wigandia Caracasana .....	75
Umbelluria californica.....	6	Xeranthemum annuum.....	10
Veronica Andersonii.....	22		

F. G.

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